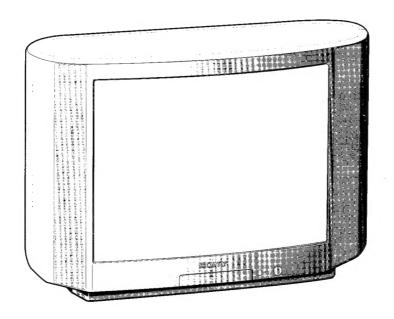
SERVICE MANUAL

AE-4 CHASSIS

MODEL	COMMAN	DER DES	T. CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-290	C3A RM-8	62 Italia	in SCC-K43A-A	KV-29C3E	R M-862	Spanish	SCC-K42A-A
KV-290	C3B RM-8	62 Fren	ch SCC-K45A-A	KV-29C3F	RM-862	OIRT	SCC-K44A-A
KV-290	C3D RM-8	62 AEP	SCC-K41A-A	KV-29C3F	RM-862	OIRT	SCC-K44B-A









ITEM MODEL,	Television System	Channel Coverage	Colour System
Italian	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, SECAM NTSC3.58/4.43 (video input only)
French	B/G/H, D/K, L, I	L SECAM VHF: F2-F10 UHF: F21-F69 TV CABLE TV (1) VHF: B-Q UHF: S21-S44 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 PAL I UHF: B21-B69 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, SECAM NTSC3.58/4.43 (video input only)
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, SECAM NTSC3.58/4.43 (video input only)
Spanish	B/G/H, D/K	PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, PSECAM NTSC3.58/4.43 (video input only)
OIRT	B/G, D/K	B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, SECAM NTSC3.58/4.43 (video input only)

MODEL	29C3A	29C3B	29C3D	29C3E	29C3K	29C3R
Power Consumption	110W	127W	127W	127W	127W	127W

SPECIFICATIONS

Picture Tube

Super Trinitron

Approx. 72 cm (29 inches) (Approx. 68 cm picture measured

diagonally) 110° deflection

[FRONT]

3 Video input - phono jack

→ 3 Audio inputs - phono jacks

─S 3 S video input - 4 pin DIN

Headphones jack: stereo minijack

Rear/Front Terminals

[REAR]

21-pin Euro connector (CENELEC standard)

- Inputs for audio and video signals

- Inputs for RGB

- Outputs of TV video and audio signals

→ 2/ → 2 21-pin Euro connector

- Inputs for audio and video signals

- Inputs for S video

- Outputs for audio and video signals (selectable)

Sound output

2x30W (music power), 2x15W (RMS)

Dimensions

794x567x530 mm approx.

Weight

Approx. 44.5 kg

Supplied accessories

Remote Commander RM-862 (1)

Batteries R6 (2) Aerial cable (1)

Other features

FASTEXT, 100Hz Digital Plus, PIP, NICAM stereo (KV-29C3B only)

[RM-862]

Remote control system

Infrared control

Power requirements

3V dc (2 batteries) R6 (size AA)

Dimensions

Approx. 210x56x24 mm (w/h/d)

Weight

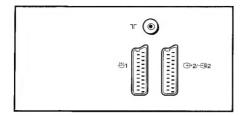
Approx. 110g

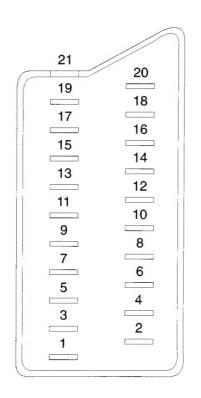
(Not including battery)

Design and specifications are subject to change without notice.

		[
Model name	KV-29C3A	KV-29C3B	KV-29C3D	KV-29C3E	KV-29C3K	KV-29C3R
Item						
PIP	ON	ON	ON	ON	ON	ON
MPIP	ON	ON	ON	ON	ON	ON
Rotation Coil	ON	ON	ON	ON	ON	ON
VM Set (Velocity Modulation)	ON	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON,	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
TXT	ON	ON	ON	ON	ON	ON
FLOF	ON	ON	ON	ON	ON	ON
TOP	ON	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	ON	ON
Norm I	OFF	ON	OFF	OFF	OFF	OFF
Norm D/K	'OFF	ON	ON	ON	ON	ON
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Language Preset	Italian	French	German	Spanish	Spanish	Spanish

21 pin connector (☆1, ↔2/ - ⑤2)





Pin No.	1	2	4	Signal	Signal Level
1	0	0	0	Audio output B (Right)	Standard level : 0.5V rms Output impedance : Less than 1k ohms*
2	0	0	0	Audio input B (Right)	Standard level : 0.5V rms Output impedance : More than 10k ohms*
3	0	0	0	Audio output A (Left)	Standard level : 0.5V rms Output impedance : Less than 1k ohm*
4	0	0	0	Ground (Audio)	
5	0	0	0	Ground (Blue)	
6	0	0	0	Audio input A (Left)	Standard level : 0.5V rms Output impedance : Less than 10k ohm*
7	0	•	•	Blue input	$0.7 \pm 3 dB$, 75 ohms, positive
8	0	0	0	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More10k ohms Input capacitance : Less than 2nF
9	0	0	0	Ground (Green)	
10	0	0	0	Open	
11	0	•	•	Green	
12	0	0	0	Open	
13	0	0	0	Ground (Red)	
14	0	0	0	Ground (Blanking)	
	0	_	-	Red input	$0.7 \pm 3 \text{dB},75$ ohms, positive
15	-	0	0	(S signal) croma input	0.7 ± 3 dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75 ohms
17	0	0	0	Ground (Video output)	
18	0	0	0	Ground (Video input)	
19	0	0	0	Video output	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
20	0	-	-	Video input	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
	-	0	0	Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
21	0	0	0	Common ground (plug, sheild)	

 Connected 	 Not Connected (Open) 	* at 20Hz - 20kHz
Commodica	Trot Conficcted (Open)	CLEOTIZ COMIZ

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	$1V \pm 3$ dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4 C (S signal) input		0.3V ± 3dB 75ohm, positive Sync.

	R	о О	$\bigcirc^{\!$
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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK \(\frac{1}{2}\) ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

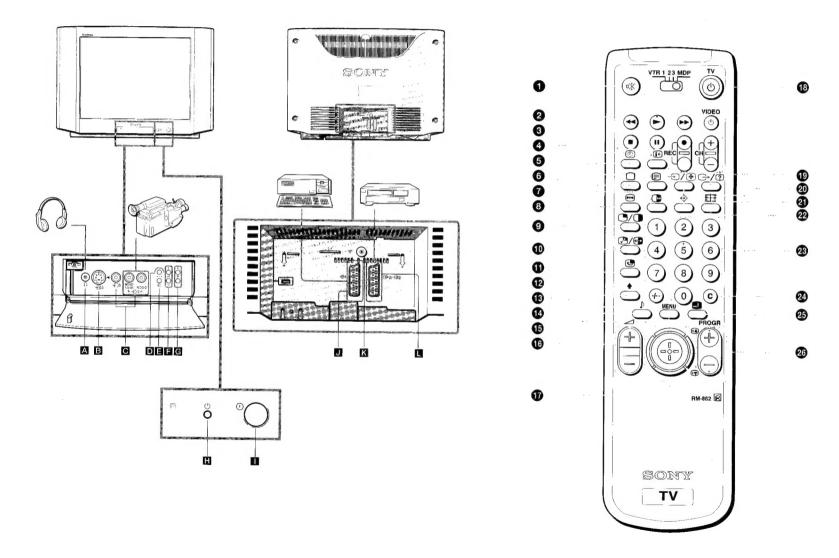
ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE !\(\) SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual.



-6

Overview

This section briefly describes the buttons and controls on the TV set and on the Remote Commander. Please open the flaps at the front and at the back of the Instruction Manual for detailed illustrations of the Remote Commander and the TV set. Letters in boxes refer to the buttons and connectors on the TV set, numbers in circles to the buttons on the Remote Commander. For more information, refer to the pages given next to each description.

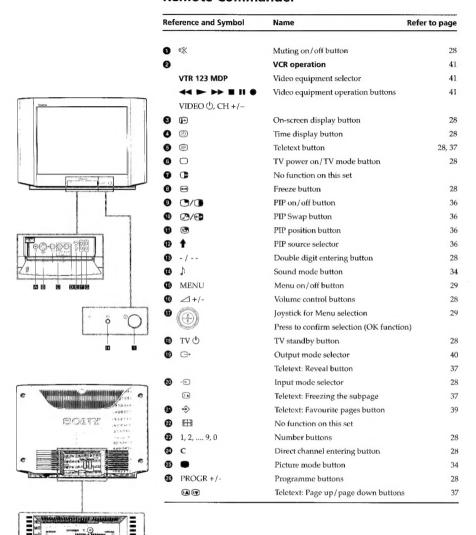
TV set - front

Ref	erence and Symbo	l Name	Refer to page
Α	ດ	Headphones jack	35
В	- €3 3	S video input jack	40
C	- ⊕ 3, - ⊕ 3	Input jacks (video, audio)	40
D	→• ←	Reset button	28
Ε	Ð	Input mode button	28
F	∠ +/-	Volume control	28
G	P +/-	Programme buttons	28
	0	Standby mode indicator	28
	①	Main power switch	28

TV set - rear

Ref	erence and Symbol	Refer to page	
J	⊕ 1	21-pin Euro connector	40
K	٦٢	Aerial socket	26
L	⊕2/-32	21-pin Euro connector	40

Remote Commander



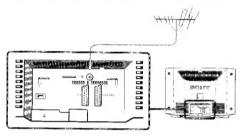


Basic Operation

Step 1 Installation

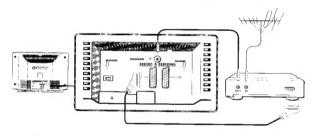
A Connecting the Aerial
(If you connect a VCR, skip to step B)

Insert the aerial plug of the supplied aerial cable tightly into the aerial socket TK



B Connecting a VCR

We recommend that you tune in the VCR signal to the programme position »0«. Use the preset function »Manual Programme Preset« (page 29) to do this.



C Inserting the batteries into the Remote Commander

Insert the batteries checking the correct polarities.



Respect your environment! Dispose of used batteries in an evironmental friendly way.

Step 2 Basic Presetting

A: Choosing the Menu Language and the Country

Using this function you select the language of the menu screens. Also you select the country in which you will use the TV. In this way the channels of the selected country will automatically get the top positions during automatic presetting.

- 1 Press the power switch ⊕ on the TV. If the standby indicator ⊕ on the TV is lit, press ⊕ ⑥ or a number button ⑥ on the Remote Commander. Press the MENU button ⑥ on the Remote Commander. The menu LANGUAGE appears.
- 2 Push the joystick 10 to blue or green to select the language. Press the joystick 10 to confirm your selection. The menu COUNTRY appears.
- 3 Push the joystick **1** to blue or green to select the country in which you wish to operate the TV. Press the joystick **1** to confirm the selection.
- 4 Press MENU 6 to restore the normal TV picture.





B Presetting Channels Automatically

With this function the TV automatically searches and stores up to 100 channels onto programme positions. If you prefer »Manual Presetting of channels« please refer to page 29 in Advanced Operation.

- 1 Press MENU (b).
- 2 Push the joystick **⊕** to blue or green to select the symbol □ on the menu screen, then push to yellow.
- 3 Push the joystick 10 to blue or green to select »Auto Programme«, then push to yellow. The menu AUTO PROGRAMME appears.
- $\bf 4$ a) All items shown on the menu screen are as wanted: Press joystick $\bf 0$ to select START. Now the automatic channel presetting starts from programme position 1.
- 4 b) You wish to change items as shown on the menu screen: Push the joystick 🄀 to blue or green. Push to yellow repeatedly until the desired item is highlighted.

Push the joystick $\ensuremath{\mathbf{0}}$ to blue or green to select the following possibilities:

AC

(Automatic Channel Installation, depending on availability of service in your country) on: fast channel presetting by special networks using the channel frequency (e.g. F055) TV-system and station label

off: ACI is not active, only ITP (Intelligent Tuner Preset)

SYS (TV Broadcast System) B/G for Western European Countries D/K for Eastern European Countries

PROG (Programme Position)
Presetting automatically starts from position 1

CH (channel)

C to start presetting with terrestrial channels S to start presetting with cable channels

Press the joystick (1) as soon as the automatic presetting should start.

5 After presetting the normal TV picture reappears.





Joystick



Step 3 TV operation

Using Direct Access Buttons

This section explains functions used while watching TV. Most operations are carried out using the Remote Commander (numbers in circles). All basic functions are also available on the TV set itself (letters in boxes).

То	Press		
Switch on	• ① ① on TV.		
Switch off temporarily (Standby mode)	• ⊕ ♠. TV is now in standby mode and indicator ⊕ 🖪 lights up.		
Switch on from standby mode	• 🔾 6, PROGR +/- 🕸 Ġ or any number button 🕹.		
Switch off completely			
Select programmes	• PROGR +/-		
Display a programme table	 The joystick ①. Push the joystick ① to blue or green to select a programme, then press the joystick ① to confirm. 		
Display on screen indications	 Press again to make the indications disappear. 		
Adjust the volume	• 🖊 + or - 🚯 🖪.		
Mute the sound	• 🕸 🕦. Press again to restore the sound.		
Display the time (only available when teletext is broadcast)			
Tune in a channel temporarily	• »C« ② once for terrestrial channels, twice for cable channels. The indication »C« or »S« for cable channels appears. Enter the channel number with two digits, e.g. for 4, press 0, then 4.		
View the input of a connected device (see also page 40)	• • • • • • • • • • • • • • • • • • •		
View teletext (see also page 37)	 fo switch on. Input a page number, using the number buttons (e.g., for page 125, press 1, 2 and 5). fo to switch off. 		
Freeze the picture	• 🖼 🔞. Press again to restore the normal TV picture.		
Reset picture settings to factory levels	• ->- D.		

Advanced Operation

Using the Menu System

Use the following buttons on the Remote Commander to operate the Menu system:

1 Press MENU button (6) to switch menu on or off.

MENU

2 Use the joystick @ as follows:



GREEN: scroll up



RED: decrease/back to last item or to last menu When menu is not displayed: Push to red to display the last menu screen



YELLOW: increase / forward to next item

BLUE: scroll down

Joystick: Press at its neutral position to confirm selection or store

PROGRAMME TABLE





Advanced Presetting

Presetting Channels Manually

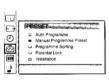
Using this function you can preset channels one by one to different programme positions. It is also convenient to allocate programme numbers to video input SOUTCES.

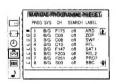
- 1 Press MENU 6.
- 2 Push joystick 🛈 to blue or green to select the symbol 🔄 on the menu screen. Push to yellow to confirm the selection.
- 3 Push to blue or green to select »Manual Programme Preset«. Push to yellow to confirm the selection.
- 4 Push to blue or green to select the programme position (PROC) to which you want to preset a channel. Push to yellow to confirm.
- 5 Push to blue or green to select the TV broadcast system (SYS) (B/G for western European countries, D/K for eastern European countries) or a video input source (EXT). Push to yellow to confirm.
- 6 Push to blue or green to select »C« (for terrestrial channels), »S« (for cable channels) or »F« (for channel frequency). Push to yellow to confirm.

There are two possibilities to preset channels manually:

a) You know the channel number or channel frequency. Please use method »Direct input«.

b) You don't know the channel number or frequency. Please use method »Search«.





continued >>>>>>>>

Advanced Presetting

7a) Direct Input

For channel numbers you need to input a two digit number, for the frequency a three digit number.

- Push to blue or green to select the first digit of the channel number or frequency.
 Push to yellow to confirm.
- Push to blue or green to select the second digit of the number or frequency. Push to yellow to confirm. In case of the channel number the search starts.
- Push to blue or green to select the third digit of the frequency number. Push to yellow to start the search of the frequency.
- To continue search for another channel: Push to blue or green.
- To store the selected channel: Press the joystick 10.
- · Repeat steps 4 to 7a) to preset other channels.

7b) Search

- Push repeatedly to yellow until a blue and a green arrow appear in the section SEARCH.
- Push to blue or green to search for the next available channel
- To continue search for another channel: Push to blue or green.
- To store the selected channel: Press the joystick 10.
- · Repeat steps 4 to 7b) to preset other channels.

Captioning a Station Name

Channels are usually automatically labelled during presetting. You can, however, individually name a channel or a video source using up to five characters.

1 Press MENU (B.

- 2 Push joystick **1** to blue or green to select the symbol **2** on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Manual Programme Preset«. Push to yellow to confirm.
- 4 Push to blue or green to select the programme position with the channel you want to label. Push to yellow repeatedly until the first element of the position LABEL is highlighted.
- 5 Push to blue or green to select a letter or a number (select »-« for a blank). Push to yellow to confirm. Select the other four characters in the same way.
- 6 After selecting all characters, press the joystick @
- 7 Repeat steps 4 to 6 to label other channels or video sources.
- 8 Press MENU (6) to restore the normal TV picture.

Advanced Presetting

Skipping Programme Positions

This function enables you to skip unused programme positions when selecting them with the PROGR +/- buttons. However, by using the number buttons you can still select the skipped programme position.

1 Press MENU 1.

Joystick

MANUALIPROGRAMME PRESET.

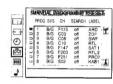
PROG SYS CH SEARCH LABEL

- 2 Push joystick **(b)** to blue or green to select the symbol ^(□) on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Manual Programme Preset«. Push to yellow to confirm.
- 4 Push to blue or green to select the programme position you want to skip. Push to yellow to confirm.
- 5 Push to blue or green to select »---« in the position SYS (system). Press the joystick to confirm.
- 6 Repeat steps 4 and 5 to skip other programme positions.
- 7 Press MENU (3 to restore the normal TV picture.

Joystick







C = 1	17	HOGRA	WINE R	PATING	shek)C
10	_	PROG	CH	LABEL	
	0	1	F 175	ARD	$\neg_{\mathbb{N}}$
+ +	0 0 0	2	C 20	ZDF	17.
0	2)	3	C 08	SWF	1
1011	101	5	C 19	RTL	
100	u	6	S 10 S 01	SAT	
200	u	7	F 224		- 1
1000	u	8	8 03		- 4
			4 to PR -		

Sorting Programme Positions

This function enables you to sort the programme positions to a preferable order.

1 Press MENU (B)

- 2 Push joystick **⊕** to blue or green to select the symbol [□] on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Programme Sorting«. Push to yellow to confirm.
- 4 Push to blue or green to select the programme position of the channel you want to exchange. Press joystick 10 to confirm.
- 5 Push to blue or green to select the programme position of the second channel. Press joystick **10** to confirm. Now the two programme positions are swapped and sorted.
- 6 Repeat steps 4 and 5 to sort other programme positions.
- 7 Press Menu (6) to restore the normal TV picture.

Using Parental Lock

This function enables you to prevent children watching undesirable broadcasts.

- 1 Press MENU
- 2 Push joystick 10 to blue or green to select the symbol 💆 on the menu screen. Push to yellow to confirm.
- 3 Push to green or blue to select »Parental Lock«. Push to yellow to confirm.
- 4 Push to green or blue to select the channel you want to block. Press the joystick ⊕ to confirm. The symbol ⊕ appears before the programme position to indicate that this channel is now blocked.
- 5 Repeat step 4 to block other channels.
- 6 Press MENU 19 to restore the normal TV picture.

To unblock: Select the channel to unblock in the menu »Parental Lock«. Press the joystick . The symbol disappears.

• 1	C 03	1 ABEL ORA
□ <u>6</u> 2	C 04 C 07	
ul 4	C 09	MBC
u 5	C 11	
u 6	C 12	
u 7	C 13	

Using »Further Programme Preset«

Using the menu »Further Programme Preset« you can

- a) individually adjust and store the volume level of each channel (Volume offset).
- b) in case of picture distortions use manual fine tuning to obtain a better picture quality. The factory setting is "on" for AFT (Automatic Fine Tuning).
- 1 Press MENU 🧲
- 2 Push joystick ⊕ to blue or green to select the symbol on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Installation«. Push to vellow to confirm.
- 4 Push to blue or green to select »Further Programme Preset«. Push to yellow to confirm.
- 5 Push to blue or green to select the programme position you want. Push to yellow repeatedly to select:
- a) VOL (Volume Offset) or b) AFT (Automatic Fine Tuning). The selected item changes colour.

6a) VOL

Push to blue or green to adjust the volume for the selected programme position within a range of -7 to +7. Press the joystick 1 to confirm. Repeat step 6 to set the volume level for other programme positions.

b) AFT

Push to blue or green to fine-tune the channel within a range of -15 to +15. Press the joystick **1** to confirm. Repeat step 6 to fine-tune other channels.

7 Press MENU to restore the normal TV picture.

Joystick





PRUG	YOL	AFT
- 1		
	0	on '
<u> </u>	0	an .
	0	on
크 I 의 4	0	on
- 1 3 5	0	on
화[[의 6	0	on .
#기의 🤊	0	on
O 8	0	on ,

Advanced Presetting

Adjusting the Picture Rotation

If, due to the earth magnetism, the picture slants, you can use this function to readjust the picture.

- 1 Press MENU (3.
- 2 Push joystick to blue or green to select the symbol a on the menu screen.

 Push to yellow to confirm.
- 3 Push to blue or green to select »Installation«. Push to yellow to confirm.
- 4 Push to blue or green to select »Picture Rotation«. Push to yellow to confirm.
- 5 Push to yellow. Push to blue or green to adjust the picture rotation. The adjusting range is 4 to + 4. Press the joystick *\text{\text{0}}\text{ to confirm.}
- 6 Press MENU (5) to restore the normal TV picture.

Joystick:





Using »AV Preset«

Using this function you can preset the desired input source (e.g. 201, RGB signal) to the respective AV input (AVI). In this way a connected VCR switches automatically to the RCB signal. Also you can label the input sources.

- Press MENU (B).
- 2 Push joystick to blue or green to select the symbol on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »Installation«. Push to yellow. Push to blue or green to select »AV Preset«. Push to yellow to confirm.
- 4 Push to blue or green to select the desired AV input. Push to yellow to confirm.
- 5 Push to blue or green to select the desired source. Push to yellow to confirm. For the respective AV inputs you have the following choice: AV1: RGB or AV AV2: YC2 or AV

AV2: YC2 or AV AV3: YC3 or AV

- 6 To label a source: Push to blue or green to select the first character (letter or number, »-« for a blank). Push to yellow to confirm. Select the other four characters in the same way.
- 7 Press the joystick To to store.
- 8 Repeat steps 4 to 7 for the other AV inputs.
- 9 For RGB input source only: Push to blue or green to select RGB H Centre.
 - Push to yellow to confirm.
 - Push to blue or green to adjust the centre of the picture in a range of -5 to +5.
 Press the joystick 10 to store.
 - Repeat step 9 to adjust RGB H Size.
- 10 Press MENU 6 to restore the normal TV picture.

Advanced TV operation

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

1 Press • (for Picture) or 1 (for Sound)

or Press MENU **6**.

Push joystick \bullet to blue or green to select \bullet for Picture Control or \flat for Sound Control. Push to yellow to confirm. The menu PICTURE CONTROL or SOUND CONTROL appears.

- 2 Push to blue or green to select the desired item. Push to yellow to confirm.
- 3 Push to red or yellow to adjust the selected item. Press the joystick 19 to confirm. For the effect of each control, see the following tables.
- 4 Repeat steps 2 and 3 to adjust other items.
- 5 Press MENU (6) to restore the normal TV picture.

Picture Control

Item	Effect	
Picture Mode	Personal → Economy (energy saving setting) →	
	Live → Sports → Movie → Game	
Contrast	• Less —— —— More	
Brightness*	• Darker —— I—— Brighter	
Colour*	• Less —— Hore	
Hue**	• Greenish ——— Reddish	
Sharpness*	• Softer — Sharper	
Reset	Resets picture to the factory preset levels	
Lumisponder	Off: Normal On: Automatic optimization of picture level according to the surrounding lighting level	
Screen Mode	 Auto (automatic selection of 16:9 broadcasts decoded in 4:3) → 4:3→ 16:9 	
Noise Reduction	Off: Normal On: Reduction of picture noise in case of weak signals	

^{*} Only if »Personal« or »Economy« is selected in »Picture Mode«.

Advanced TV operation

Sound Control

Joystick

Item	Effect	
Sound Mode	 Choice between different sound effects User → Pop → Jazz → Rock 	
Treble*	• Less ——— More	
Bass*	• Less ——— More	
Balance	More left ——— More right	
Loudness*	Off: normal On: for music broadcasts	
Space	Off: normal On: special acoustic effect	
Dual Sound	• A: channel 1 or B: channel 2 Stereo Mono	
Headphones		
○ Volume	• Less ——— ——— More	
∩ Dual Sound	 A: channel 1 or B: channel 2 → PIP (if PIP is switched on, you can select the PIP sound for the headphones) → Stereo → Mono 	

^{*} Only if »User« is selected in »Sound Mode«

Joystick





Using the Sleep Timer

This function enables you to select a time period after which the TV automatically switches into standby mode.

- 1 Press MENU 1.
- 2 Push joystick n to blue or green to select the symbol on the menu screen. Push to yellow to confirm.
- 3 Push to yellow. Push to blue or green to select the time. OFF \rightarrow 10 min \rightarrow 20 min80 min \rightarrow 90 min. Press the joystick to confirm.
- 4 Press MENU 6 to restore the normal TV picture.
- One minute before the TV switches into standby mode, a message is displayed on

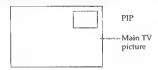




^{**} Available for NTSC colour system only.

PIP (Picture-in-Picture)

With this function you can display a »PIP screen« (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTR) while watching TV or vice versa.



Switching PIP on and off

Press 🕒/ 🕕 🚳.

The PIP screen will be displayed. The PIP picture comes from the source chosen when the TV was last used.

To switch PIP off
Press () again.

O

13

- 1 Press MENU 15.
- 2 Push joystick **1** to blue or green to select the symbol ... on the menu screen. Push to yellow to confirm.
- 3 Push to yellow. Push to blue or green to select »On« or »Off«, Press joystick 🏵 to confirm.
- 4 To change the PIP Position:

Push to blue or green to select »PIP Position«. Push to yellow. Push to blue, green, red or yellow to select one of the four positions. Press joystick **1** to confirm.

5 Press MENU (6) to restore the normal TV picture.

Changing the position of the PIP

Press () () repeatedly to change the position of the PIP screen within the main screen. There are four different positions available.



Selecting a PIP source Press † @.

The symbol † ⊕ will be displayed at the bottom, left-hand corner of the screen. Press ⊕ ⊕ repeatedly until the desired source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC41).

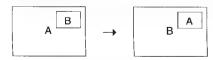
Tips

- If no video source has been connected, the PIP picture will be noisy.
- A RGB input source cannot be displayed in PIP.

Swapping screens

Press 2/ 0

The main screen will switch the picture with the PIP screen.



If the PIP screen shows a TV programme and the main picture a video source, and you want to change channels, first press ↑ ♠ and then the programme buttons ♠ or PROGR +/- ♠

Teletext

Most TV channels broadcast information via teletext. The index page of the broadcaster (usually page 100) informs you about how to use the service. Make sure to use TV channel with a strong signal, otherwise Teletext errors may occur.

Direct Access Function

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext service you want to view.

Press $\ensuremath{\boxdot}$ $\ensuremath{\bullet}$ twice for Mix mode. The normal TV screen and the Teletext screen are overlapped.

3 Press O 6 to switch Teletext off.

Selecting a Teletext page

Direct Page Selection

Use the number buttons ② to input three digits of the page number. If you have made a mistake: Type in any three digits, then reenter the correct page number.

Page Catching

Joystick

0

■ PiP[on]

⇒ PIP Position

1 Select a teletext page with page numbers (e.g. index page).

2 Press the joystick **①**. »Page Catching« is displayed at the top of the page. Push joystick **②** to blue or green to select the page you want. Press the joystick **③** The requested page is displayed after some seconds. Press **③** to resume normal teletext reception.

Accessing the next or preceding page

Press (A) (Page +) or (Page -).

Freezing a teletext subpage

Press (2) (3). The symbol (2) is displayed.

Press (3) to resume normal teletext reception.

Revealing hidden information (e.g. for a quiz)

Press . Press again to cancel.

Using Fastext

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue marks on the Remote Commander. Push the joystick **1** to the colour mark which corresponds to the colour-coded menu. The page is displayed after some seconds.

Joystick



continued >>>>>>>

Teletext

Using the Teletext Menu

Your TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the buttons for menu operation to operate the teletext menu. Select the teletext menu functions as follows:

- 1 Press MENU 18. The menu is superimposed on the teletext display.
- 2 Push the joystick 10 to blue or green to select the teletext function you want.
 Push to yellow to confirm the selection.

USER PAGES/PRESET USER PAGES

See page 39 for information about presetting and operating the user pages.

INDEX

The index gives you an overview of the contents of the teletext you are using.

TOP/BOTTOM/FULL

TEXT CLEAR

After selecting the function, you can watch ■ TV programme while waiting for a requested teletext page to be captured. When the page is available, the symbol ⊜ changes colour. Press ⊕ ⑤ to view the requested page.

SUBTITLES

Check with your teletext service for information about subtitled TV programmes. After selecting the function the subtitles are displayed.

TIME PAGE

Check with your teletext service about the availability of time coded pages. If available, you can call up a page (e.g. an alarm page) at a certain time.

- 1 Select TIME PAGE in the teletext menu.
 Push joystick to to yellow. An information window is displayed. Push to blue or green to select »On«. Push to yellow.
- 2 Use the number buttons a to enter the three digits of the page you want (e.g. 301). Push to yellow after each digit.
- 3 Use the number buttons ② to enter the four digits of the desired time (e.g 18-54). Push to yellow after each digit. Press joystick ② to confirm. Press MENU ③. The time is displayed in the top left-hand corner of the screen. At the requested time the page is displayed.

SUBPAGE

Using this function you can select a particular teletext page from several subpages (e.g. page 2 of 6 pages in total). After selecting the function an information line is displayed. Use the number buttons at the four digits (e.g. enter 0002 for the second page of a sequence).

To cancel the request: Push joystick 10 to red and then to yellow.

Jovstick



PIELEMENT NEMLENS

Top | Bottom OK Full

User Pages
Index
Top/Bottom/Full
Text Clear
Substitles
Time Page
Subpage
Preset User Pages

Teletext



You can store up to 6 of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.

Storing pages

- 1 Press 🗐 🚯 to switch Teletext on. Press MENU 🚯
 - 2 Push joystick 10 to blue or green to select »Preset User Pages«. Push to yellow to confirm.
 - 3 Push to blue or green to select the bank (from A to E) you want. Push to yellow to confirm.
 - 4 Push to blue or green to select the three digits of your first favourite page. Push to yellow after each digit. Push to yellow to confirm.
 - 5 Repeat step 4 for the other 5 favourite pages. If you do not want to preset all 6 page numbers push to yellow without inserting any number. After finishing the presetting, press the joystick .
 - 6 Push to blue or green to select »Allocate Bank«. Push to yellow to confirm.
 - 7 Push to blue or green to select the programme position of the channel which carries the teletext service for which you have selected your favourite pages. Push to yellow to confirm.
 - 8 Push to blue or green to select the bank from step 3. Press the joystick 10 to confirm.
 - 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

- 1 Press MENU (B)
- 2 Push joystick to blue or green to select »User Pages«. Push to yellow to confirm.
- 3 Push to blue or green to select the page you want. Press the joystick ①. The page is displayed after some seconds.

0

- 1 Press 💠 🚳
- 2 Push joystick to blue or green to select the page you want. Press the joystick ●. The page is displayed after some seconds.

Joystick





PAGE 300 PAGE 203 PAGE 203 PAGE 203 PAGE 203 PAGE 203 PAGE 500 PAGE 500 PAGE 199

3

Optional Equipment

Connecting Optional Equipment

You can connect a wide range of optional equipment to your TV. Refer to the illustrations on the back lap page of this Instruction Manual.

Symbol	Acceptable input signals	Available output signals
	Normal audio/video and RGB	Audio/video from TV tuner
⊕2/-32	Normal audio/video and S video	Audio/video from selected source
⊕3, ⊕3	Normal audio/video and S video	No output

About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

Tips:

- If the picture or sound is distorted, move the VCR away from the TV.
- When connecting a monaural VCR, connect only the white jack to both the TV and VCR.

Selecting Input and Output Signals

a) Direct Access Buttons

Selecting the Input

Press Đ 🕲 🖪 repeatedly to select one of the following input modes:

Symbol on the screen	Input signals	
- 1	Audio/video through Euro AV connector	J
Ö	RGB through Euro AV connector	Ų
⊕2	Audio/video through Euro AV connector	L
- ⊕2	S video through Euro AV connector	L.
⊕3	Audio/video through the phono jacks	C
-33	S video through the 4 pin DIN	В

Press

6 to restore the normal TV picture.

Selecting the Output from Euro AV connector →2/- 2 1

Press → **6** repeatedly to select one of the following output sources for the connector → 2/→ 2 ■:

Symbol on the screen	→ 2/- 2 connector output signal	
1 🕒	Audio/video from Euro AV connector	J
2 🕒	Audio/video from Euro AV connector	L
2 🗈	Audio/video from Euro AV connector	L
3 →	Audio/video from the phono jacks	C
3 ⑤→	Audio/video from the 4 pin DIN	В
TV	Audio/video from the aerial terminal T	K

Optional Equipment

b) Using the Menu »Video Connection«

- 1 Press MENU 49.
- 2 Push joystick **1** to blue or green to select the symbol $\overset{\text{le}}{\approx}$ on the menu screen. Push to yellow to confirm.
- 3 Push to blue or green to select »TV screen« (input source for TV-screen), PIP (source for PIP screen), or »Output« (output source for ③ 21-③ 21). Push to yellow to confirm.

You can select between the following sources:

• TV: TV-tuner • YC: S video signal • AV: Audio/Video

TV screen: TV, AV1, RGB, AV2, YC2, AV3, YC3
PIP: TV, AV1, AV2, YC2, AV3, YC3
Output: TV, AV1, AV2, YC2, AV3, YC3

- 4 Push to blue or green to select the desired source. Press joystick to store.
- 5 Press MENU 18 to restore the normal TV picture.

Remote Control of other Sony Equipment

Using the buttons $\ensuremath{\mathfrak{Q}}$ on the Remote Commander you can control other Sony equipment.

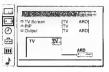
1 Set the selector VTR 1 2 3 MDP according to the equipment you want to control.

VTR 1: Beta VCR VTR 2: 8mm VCR VTR3: VHS VCR MDP: Video Disk Player

2 Use the buttons ② on the Remote Commander to operate the equipment.

Tip

- If your video equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1 2 3 MDP selector on the TV Remote Commander.
- If the equipment does not have a certain function, the corresponding button on the Remote Commander does not work.



Joystick



·Troubleshooting

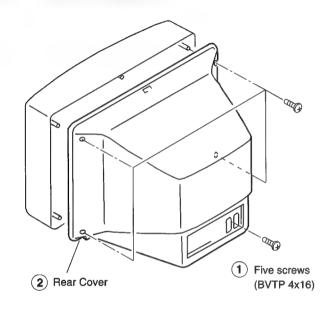
Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution	
No picture (screen is dark), no sound	Plug the TV in.	
	 Press	
	Check the aerial connection.	
	 Check if the selected video source is on. 	
	 Turn the TV off for 3 or 4 seconds and then turn it on again using O. 	
Poor or no picture (screen is dark), but good sound • Press • • to enter the PICTURE CONTROL menu a »Brightness«, »Contrast« and »Colour«.		
Poor picture quality when watching an RGB video source	• Press ⊕ 🕲 repeatedly to select 😇.	
Good picture but poor or no sound	 Press ∠ + . If ≪ is displayed on the screen, press ♥ . 	
No colour for colour programmes	 Press	
Remote Commander does not function.	Replace batteries.	

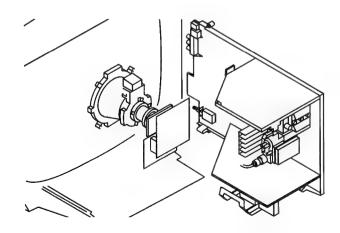
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

SECTION 2 DISASSEMBLY

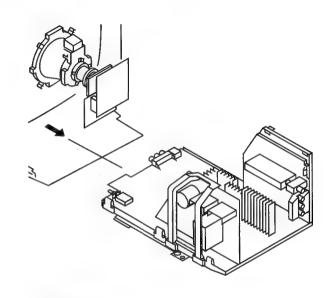
2-1. REAR COVER REMOVAL



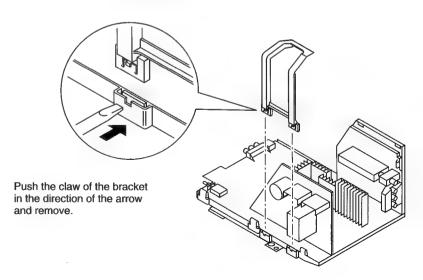
2-3. SERVICE POSITION

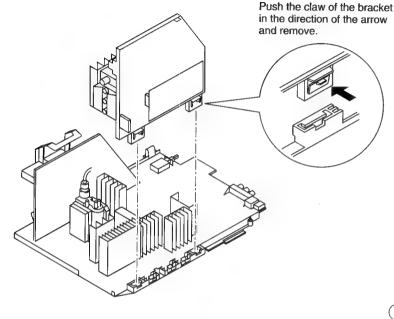


2-2. CHASSIS ASSY REMOVAL



2-4. G BOARD REMOVAL





REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* REMOVING PROCEDURES.



1 Turn up one side of the rubber cap in 2 Using a thumb pull up the rubber cap 3 When one side of the rubber cap is the direction indicated by the arrow (a)



firmly in the direction indicated by the

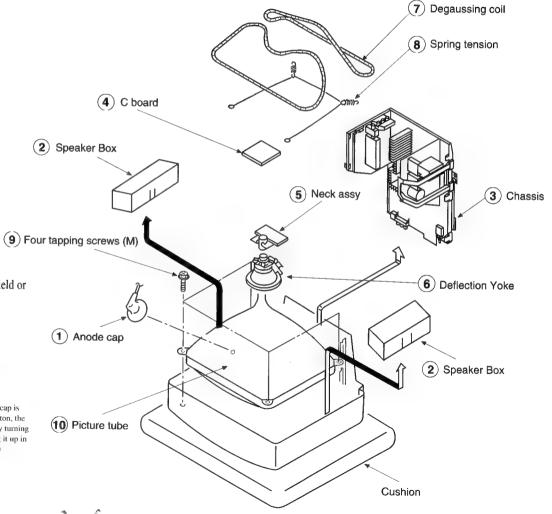


separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

HOW TO HANDLE AN ANODE-CAP

- 1 Don't damage the surface of anode-cap with sharp shaped material!
- 2 Don't press the rubber hardly not to hurt inside of anode-caps! A metal fitting called a shatter-hook terminal is built into the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or damage the rubber.





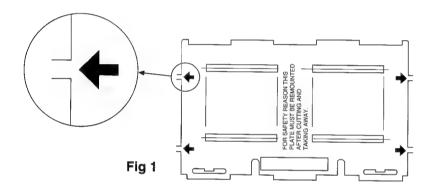


REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET **BOTTOM PLATES.**

REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed circuit, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations shown and indicated by arrows.

Note: There are 5 plates fitted to the main bracket and secured by 4 or 6 gates. Only remove the necessary plate to gain access to the circuit board.



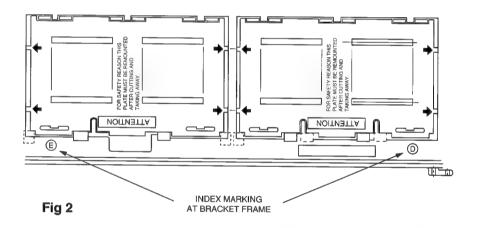
For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

The plates are identified by markings A-B-C-D-E on their top side.

- Identify the plate by locating its marking.
- Turn the plate over noting where the marking is located.
- Locate the corresponding marking indicated on the main chassis bracket. See Fig 2.
- Refit the plate as indicated in Fig 3 with the markings located next to each other.



MAIN BRACKET **INSERT FROM** THE BOTTOM SIDE

Fig 3

In the event of the plates requiring to be removed at a later stage, this can be achieved by inserting a screwdriver in the snap-recess indicated as in Fig 4 and lifting out.



Fig 4

SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustment with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches as follows.

Contrast normal Brightness normal

- Carry out the following adjustments in this order:
- 3-1. Beam landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White balance

Note: Testing equipment required.

- 1. Color bar/pattern generator
- 2. Degausser
- 3. Vector scope

3-1. BEAM LANDING

Preparation:

- 1. In order to reduce the influence of geomagnetism on the set's picture tube face it in an easterly or westerly direction.
- 2. Switch on the set's power and degauss with the degausser.

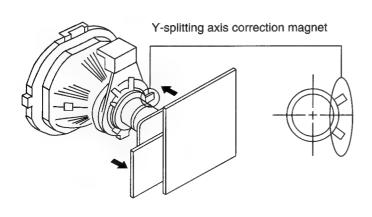
(1) Adjustment of Correction Magnet for Y-Splitting **Axis**

- 1. Input a crosshatch signal from the pattern generator.
- 2. Picture control is minimum and brightness control is still normal.
- 3. Position the neck assy as shown in Fig. 3-2.
- 4. Move the deflection yoke forward to touch the CRT and it stands up rightly.
- 5. Adjust the upper pin and the lower pin symmetrically by opening or closing the Y-splitting axis correction magnets on the neck assy.
- 6. Return the deflection yoke to its original position.

(2) Landing

Note: Before carrying out the following adjustments adjust the magnets as indicated below (See Fig.3-3).

- 1. Input an all-white signal from the pattern generator. Maximize the picture setting and adjust the brightness setting.
- 2. Rough-adjust the focus and horizontal convergence.
- 3. Loosen the deflection yoke screws, align the purity adjustment knob to the central position. (See Fig. 3-1)
- 4. Switch from the all-white pattern to an all-green pattern.
- 5. Move the deflection yoke backwards and adjust with the purity magnet so that the green is at the center and it aligns symmetrically. (See Fig. 3-4)
- 6. Move the deflection yoke forward and adjust so that entire screen becomes green.
- 7. Switch the raster signal to red, then to blue and verify the landing condition.
- 8. When the position of the deflection yoke has been determined, fasten the deflection yoke with the screw.
- 9. If the beam does not land correctly in all the corners, use magnets to correct it. (See Fig. 3-5)



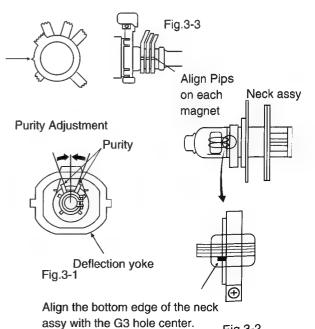


Fig.3-2

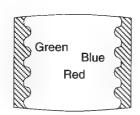
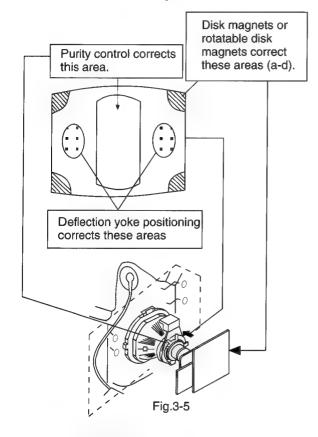


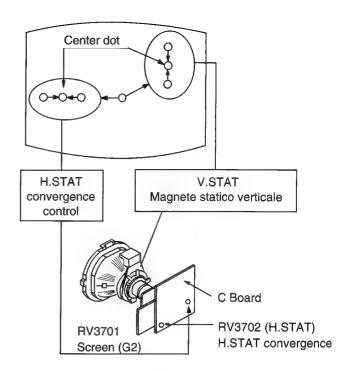
Fig.3-4



3-2. CONVERGENCE

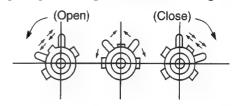
(1) Screen center convergence (Static convergence)

- 1. Input a dot signal from the pattern generator. Normalize the picture setting.
- 2. (Moving horizontally), adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the center of screen.
- (Moving vertically), adjust the V.STAT magnet so that the vertical red, green and blue points coincide at the center of screen.

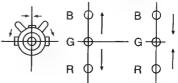


• If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking.

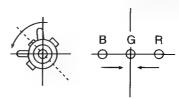
(Adjust the convergence by tilting the V.STAT convergence or by opening or closing the V.STAT convergence.)



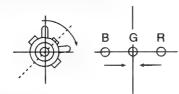
- Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.
- ① By opening or closing the V.STAT magnet, the red, green and blue points move as shown below



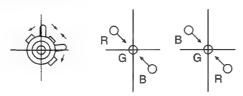
②By rotating the V. STAT magnet counterclockwise, the red, green and blue dots move as shown below.



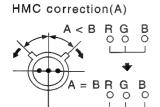
(3) By rotating the V.STAT magnet clockwise, the red, green and blue dots move as shown below.

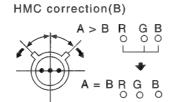


(4) By opening or closing the V.STAT magnet, the red, green and blue dots move as shown below.

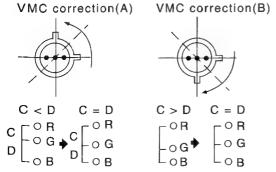


- If the blue dot does not coincide with the red and green points, correct the points by using the BMC (Hexapole) magnet.
- (vertical mis-convergence) by using the BMC (Hexapole) magnet.
- ①HMC correction by BMC (Hexapole) magnet and movement of the electronic beam.

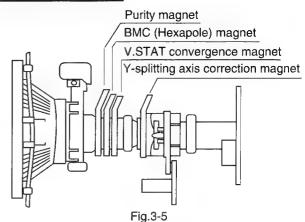




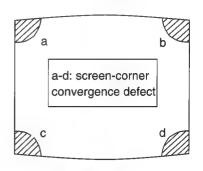
② VMC correction by BMC (Hexapole) magnet and movement of the electronic beam.



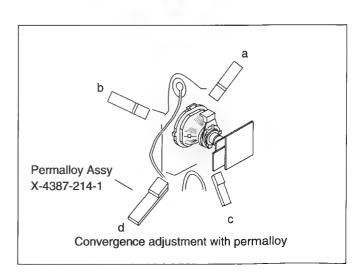
Layout of each control



2. If you are unable to adjust the corner convergence properly, correct them with the use of permalloys.

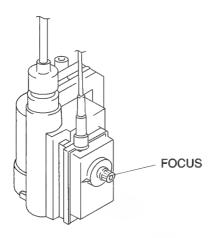






3-3. Focus

- 1. Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control on the flyback transformer for the best focus at the center of the screen.
 Bring only the center area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White balance (Adjustment in the service mode with remote commander)

G2 adjustment (RV3701)

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- 3. Apply 170V DC from an external power supply to the R, G and B cathodes of the CRT.
- 4. While watching the picture, adjust the G2 control RV3701 [SCREEN] on the C board to the point just before the return lines disappear.

White balance adjustment

- 1. Receive an all-white signal.
- 2. Enter into the Service Mode by pressing 'TEST', 'TEST' and 'MENU' on the Service Commander.
- 3. Select 'VIDEO PROC.' from the on screen menu display and press OK.
- The 'VIDEO PROC TDA4780' menu will appear on the screen.

Video Proc. TDA4780

Item No	Adjustment item	Data Amount
1	BRT	USER CONTROL
2	COL	USER CONTROL
3	PIC	USER CONTROL
4	HUE	USER CONTROL
5	R GAIN	31
6	G GAIN	Adj
7	B GAIN	Adj
8	R LVL REF	31
9	G LVL REF	Adj
10	B LVL REF	Adj
11	PEAK DRV LIMIT	63
12	GAMMA	31
13	SCP ON = 3LEV OFF = 2LEV	ON
14	DELAY	OFF

- 5. Set picture to MAX.
- 6. Set the 'R GAIN' to 25.
- 7. Adjust the 'G GAIN' and 'B GAIN' so that the white balance becomes optimum.
- 8. Press the OK button to write the data for each item.
- 9. Set picture to MIN.
- 10. Set the 'R LVL REF' to 31.
- 11. Adjust 'G LVL REF', and 'B LVL REF' with the left and right buttons so that the white balance becomes optimum.
- 12. Press the OK button to write the data for each item.

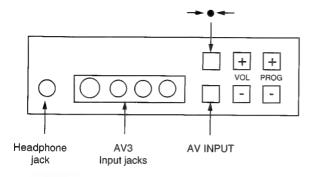
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-862.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing the PROG + (plus) and PROG - (minus) buttons on the front panel.



- 2. "TT" will appear on the upper right corner of the screen.
- 3. Press " MENU " on the commander to get the service menu on screen.

DEVICES	
Init TV	
Pip, Lumisponder & Autos	ide
Sub Adjust	
Video Proc	TDA4780
Col Dec Main	TDA9144
Deflect. Cont	SDA9361
Col Dec Sub	TDA9143
Feature Box	S87C654
Al	TDA9170
DA	SDA9280
Single PIP	SDA9288
Sound	
Line23 det	

- 4. Push the joystick up (green) or down (blue) on the remote commander to select the adjustment item.
- 5. Press the center button to proceed to the next menu.
- 6. If the adjustment item is 'Video Proc.', push the down button to move to 'Video Proc.'.
- 7. The Menu as indicated in Fig 4-3 will appear on the screen.
- 8. Move the joystick up or down to move to the adjustment item and press the center (OK) button.
- 9. Change the data in order to comply with each standard.

Item No	Adjustment item	Data Amount
1	BRT	USER CONTROL
2	COL	USER CONTROL
3	PIC	USER CONTROL
4	HUE	USER CONTROL
5	R GAIN	31
6	G GAIN	Adj
7	B GAIN	Adj
8	R LVL REF	31
9	G LVL REF	Adj
10	B LVL REF	Adj
11	PEAK DRV LIMIT	63
12	GAMMA	31
13	SCP ON = 3LEV OFF = 2LEV	ON
14	DELAY	OFF
15	DATA BUFF	OFF
16	NTSC MATRIX	OFF
17	HDTV	OFF
18	FSBL	OFF
19	AUTO CUT OFF	ON
20	FSW 2 DIS	OFF
21	FSW 2	OFF
22	FSW 1 DIS	OFF
23	FSW 1	OFF
24	ADAPT BLACK	OFF
25	Y HIGH 1V	OFF
26	MOD2	OFF
27	BLUE STRETCH	OFF
28	VM OUT	OFF
29	PEAK DRV ABS	ON
30	TIME CNST PEAK LIMIT	OFF

Fig. 4-3

SDA9361 (VIDEO PROC.)

Item No	Adjustment item	Data Amount
1	HDE	ON
2	VR	0
3	RABL	ON
4	BLK DIS	OFF
5	2FH 2*LINE FRQ	ON
6	STANDBY MODE	OFF
7	VERTICAL	ON
8	BSE BLK SELECT	OFF
9	SSE START SCAN	OFF
10	SRSE START RED SCAN	OFF
11	GBE GUARD BAND	OFF
12	STE SCAN TIME TABLE	OFF
13	NSA SELF ADAPTION	ON
14	V SHIFT	ADJ
15	V SIZE	ADJ
16	V LIN	ADJ
17	V S-COR	ADJ
18	V EHT COMP	25" = 78 29" = 100 28" = 36 32" =
19	H SIZE	ADJ
20	PIN PHASE	ADJ
21	PIN AMP	ADJ
22	UP COR PIN	ADJ
23	LOW COR PIN	ADJ
24	H EHT COMP	25" = 78 29" = 100 28" = 36 32" =
25	H SHIFT	ADJ
26	V ANGLE	ADJ
27	V BOW	ADJ
28	PWM START	0

Item No	Adjustment item	Data Amount
29	D/A	0
30	V BLK TIME	0
31	H BLK TIME	0
32	STAR V SCAN	0
33	H BLK PHASE	0
34	V SCAN WIDTH 0	0
35	V SCAN WIDTH 1	0
36	GUARD BAND	0
37	START RED SCAN	0
38	NUMBER FIELDS	1
39	NI NON INTERLACE	OFF
40	NR VSYNC NOISE RED	ON
41	SCC WITH VBL	ON
42	MIN LINES/FIELD	0
43	MAX LINES/FIELD	0
44	AFC EHT COMP	0
45	PLL FREQ	6
46	VCR	ON
47	GEN MOD	OFF
48	HSWID	ON
49	INT H PHASE	239
50	PWM WIDTH	0
51	NOISY VCR	OFF
52	KILLZIP	OFF
53	TC3RD	OFF
54	BANDGAP 4 OFF	OFF
55	BANDGAP OFF	OFF
56	BANDGAP	0

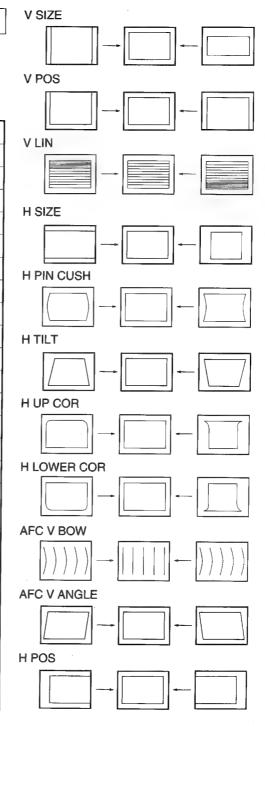
TDA4780 (VIDEO PROC.)

Item No	Adjustment item	Data Amount
1	BRT	USER CONTROL
2	COL	USER CONTROL
3	PIC	USER CONTROL
4	HUE	USER CONTROL
5	R GAIN	25
6	G GAIN	Adj
7	B GAIN	Adj
8	R LVL REF	31
9	G LVL REF	Adj
10	B LVL REF	Adj
11	PEAK DRV LIMIT	0
12	GAMMA	31
13	SCP ON = 3LEV OFF = 2LEV	ON
14	DELAY	OFF
15	DATA BUFF	OFF
16	NTSC MATRIX	OFF
17	HDTV	OFF
18	FSBL	OFF
19	AUTO CUT OFF	ON
20	FSW 2 DIS	OFF
21	FSW 2	OFF
22	FSW 1	OFF
23	FSW 1	OFF
24	ADAPT BLACK	OFF
25	Y HIGH 1V	OFF
26	MOD2	OFF
27	BLUE STRETCH	OFF
28	VM OUT	OFF
29	PEAK DRV ABS	ON
30	TIME CNST PEAK LIMIT	OFF

DEFLECTION SYSTEM ADJUSTMENT

- Enter into the service mode and select 'Deflect cont.'.The 'Deflect cont. SDA9361' adjustment menu will be displayed.
- 2. Select and adjust each item in order to get an optimum image.

Item No	Adjustment item	Data Amount
1	HDE	ON
2	VR	0
3	RABL	ON
4	BLK DIS	OFF
5	2FH 2*LINE FRQ	ON
6	STANDBY MODE	OFF
7	VERTICAL	ON
8	BSE BLK SELECT	OFF
9	SSE START SCAN	OFF
10	SRSE START RED SCAN	OFF
11	GBE GUARD BAND	OFF
12	STE SCAN TIME TABLE	OFF
13	NSA SELF ADAPTION	ON
14	V SHIFT	ADJ
15	V SIZE	ADJ
16	V LIN	ADJ
17	V S-COR	ADJ
18	V EHT COMP	25" = 78 29" = 100 28" = 36
19	H SIZE	ADJ
20	PIN PHASE	ADJ
21	PIN AMP	ADJ
22	UP COR PIN	ADJ
23	LOW COR PIN	ADJ
24	H EHT COMP	25" = 78 29" = 100 28" = 36
25	H SHIFT	ADJ
26	V ANGLE	ADJ
27	V BOW	ADJ
28	PWM START	0



4-2. VOLUME ELECTRICAL ADJUSTMENTS

Sub Brightness Adjustment

- 1. Enter Service Mode (Device Menu).
- 2. Select 'SUB ADJUST MENU'.

Sub adjustment

Sub Picture

Sub Color

Sub Brightness

4/3 Center

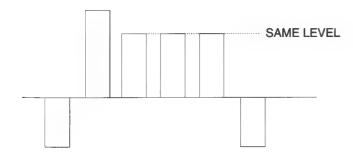
PAP H-Center

PAP HWE-Offset

3. Adjust the value according to the following advice.

Sub Color Adjustment

- 1. Input a PAL color bar signal.
- 2. Connect an oscilloscope to CN3703.
- 3. Enter into 'SERVICE MODE'.
- 4. Choose 'SUB ADJUST'.
- 5. Enter into Sub Color mode.
- 6. Adjust data so that the right sides of the waveforms are of equal height.



4-3. TEST MODE 2:

Is available by pressing the Test button twice, OSD "TT" appears. The functions described below are available by pressing the two numbers. To release Test Mode 2, press $0, 10, 20 \dots$ twice or switch the TV into Standby Mode. Pressing the two Local Control buttons (+ and -) during Power ON will also switch into "TT" mode.

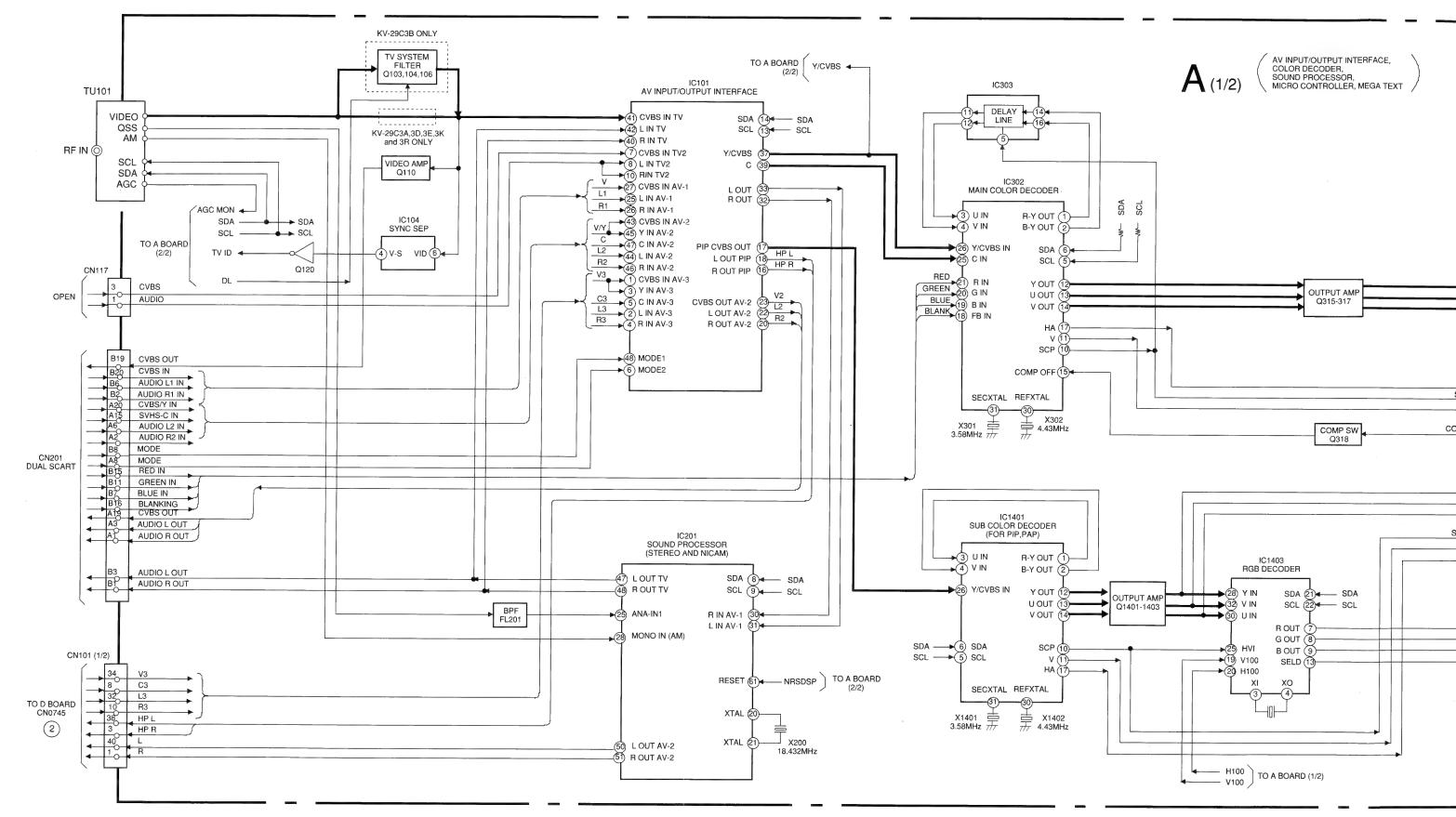
In TT mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed!!

00	Switch back to normal mode - TT mode off
01	Switch service menu on
02	Direct access to Noise reduction
03	Set volume to 30%
04	Service menu in "Service Mode"
05	Service menu in "Production Mode"
06	Set Volume to 80%
07	Aging Mode
08	Shipping Condition
09	Language Reset
10	The TT number will be deleted
11	Direct access to Balance
12	Direct access to Hue
13	Display of TV set configuration
14	Production Info Display
15	Read Analog from ROM
16	Save Analog F in NVM
17	This function presets the Labels for the AV sources: AV1, RGB, AV2, YC2, AV3, YC3, AV4, YC4.
18	No function
19	No function
20	See TT10
21	Picture Rotation automatic function: (-4) -> (+4) -> 0
22	Error Monitor Display
23	Direct access to Sub Brightness Adjustment.
24	Direct access to Sub Colour.
25	Status Menu Display
26	Text Character selection (Char set 06 -> West Europe)
27	Text Character selection (Char set 38 -> East Europe)
28	Text Character selection (Char set 40 -> West Europe) US English
29	Text Character selection (Char set55 -> West Europe) Turkish
30	See TT10

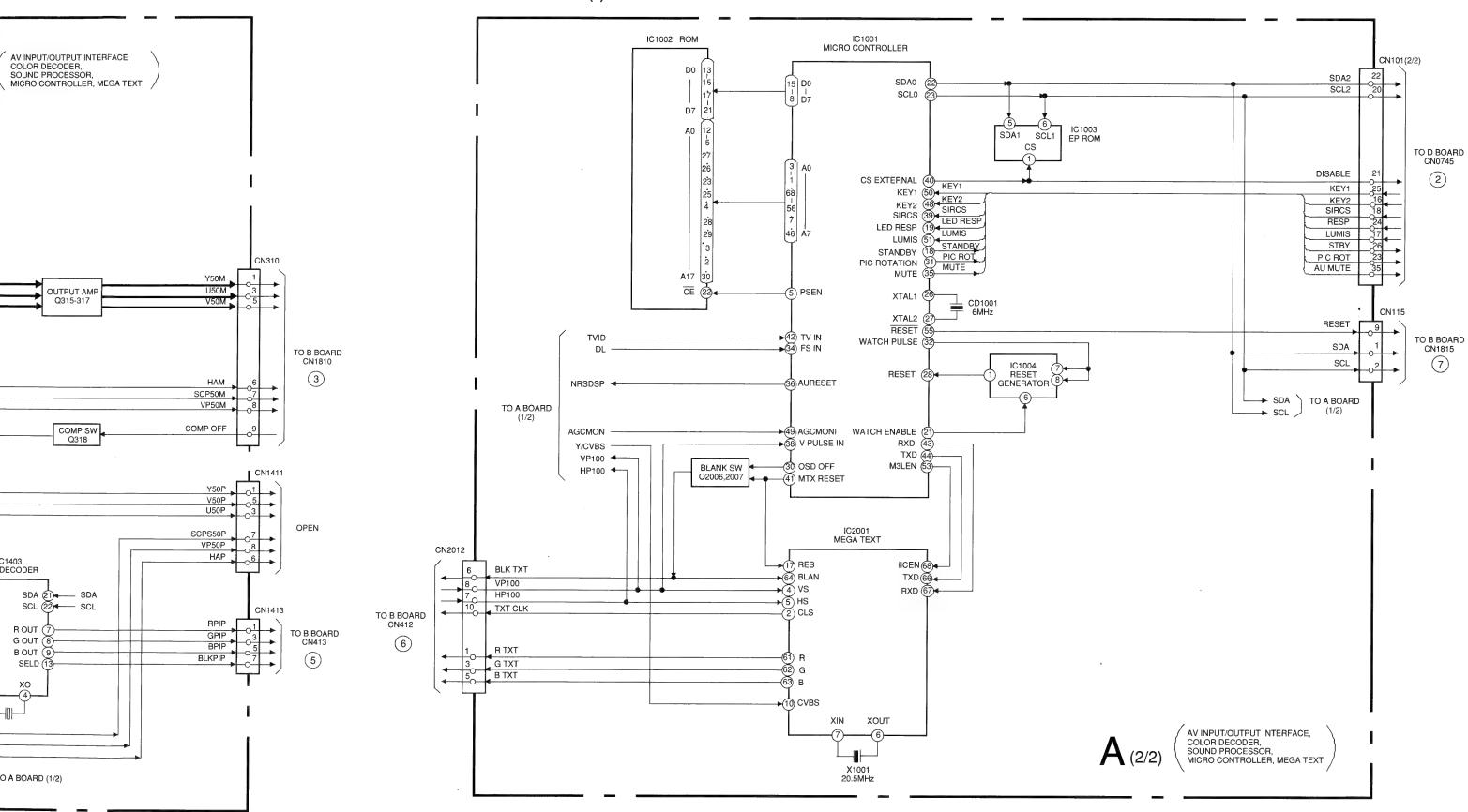
31	no function
32	no function
33	no function
34	no function
35	no function
36	no function
37	no function
38	Screen Position
39	Reset Programme Table
40	See TT10
41	Picture Min
42	no function
43	no function
44	no function
45	Set NVM to Protect mode
	IR Channel Pressetting Mode. The channel pressetting can be done by a Special transmitter.
46	Sequence: TT46 ->PR Number select display appears Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data!</td
46	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active,</td
	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data!</td
47	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data! no function</td
47	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data! no function</td
47 48 49	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data! no function New Initialize</td
47 48 49 50	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data! no function New Initialize See TT10</td
47 48 49 50 51	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data! no function New Initialize See TT10 Strobo mode is activated.</td
47 48 49 50 51 52	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data! no function New Initialize See TT10 Strobo mode is activated. no function</td
47 48 49 50 51 52 53	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data! no function New Initialize See TT10 Strobo mode is activated. no function Direct access to Velocity Modulation VM (Production</td
47 48 49 50 51 52 53	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data! no function New Initialize See TT10 Strobo mode is activated. no function Direct access to Velocity Modulation VM (Production use)</td
47 48 49 50 51 52 53 54	Select Prog. No. from where the channel shall be stored> Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs Note: when TT46 is active, any transmission will be interpreted as PROG data! no function New Initialize See TT10 Strobo mode is activated. no function Direct access to Velocity Modulation VM (Production use) Slicer High</td

59	MTX Wide Framing Code Window
60	See TT10
61	no function
62	no function
63	no function
64	Reset all IIC Slave commands (Production use)
65	Reset stored error codes in NVM
66	Feature box and Pal Plus
67	no function
68	Ignore Errors - on
69	Ignore errors - off
70	See TT10
71	no function
72	no function
73	Megatext RGB textlevel one step decreased.
74	Megatext RGB textlevel one step decreased (max 1 steps down starting from E0h) (Production use)
75	no function
76	CDA9360
77	SDA9280
78	PIP
79	no function
80	See TT10
81	S87C654 Default data setting
82	TDA9170 Default data setting
83	SAA 7185WP Default data setting
84	TDA4780 Default data setting
85	TDA9144 Default data setting
86	TDA9143 Default data setting
87	SDA9288 Default data setting
88	Char set Russian
89	Char set Russian (esc)
90	See TT10

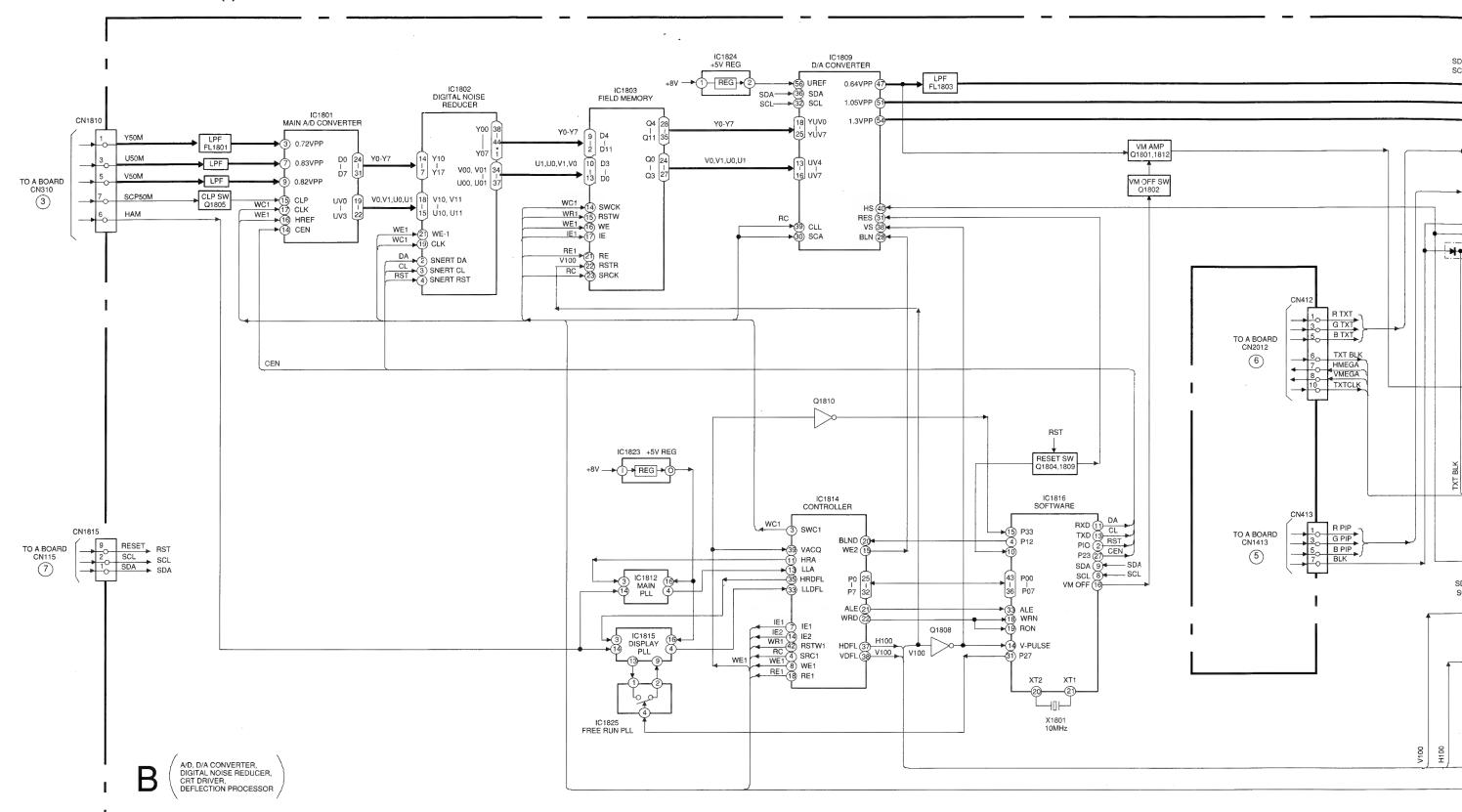
DIAGRAMS BLOCK DIAGRAM (1)



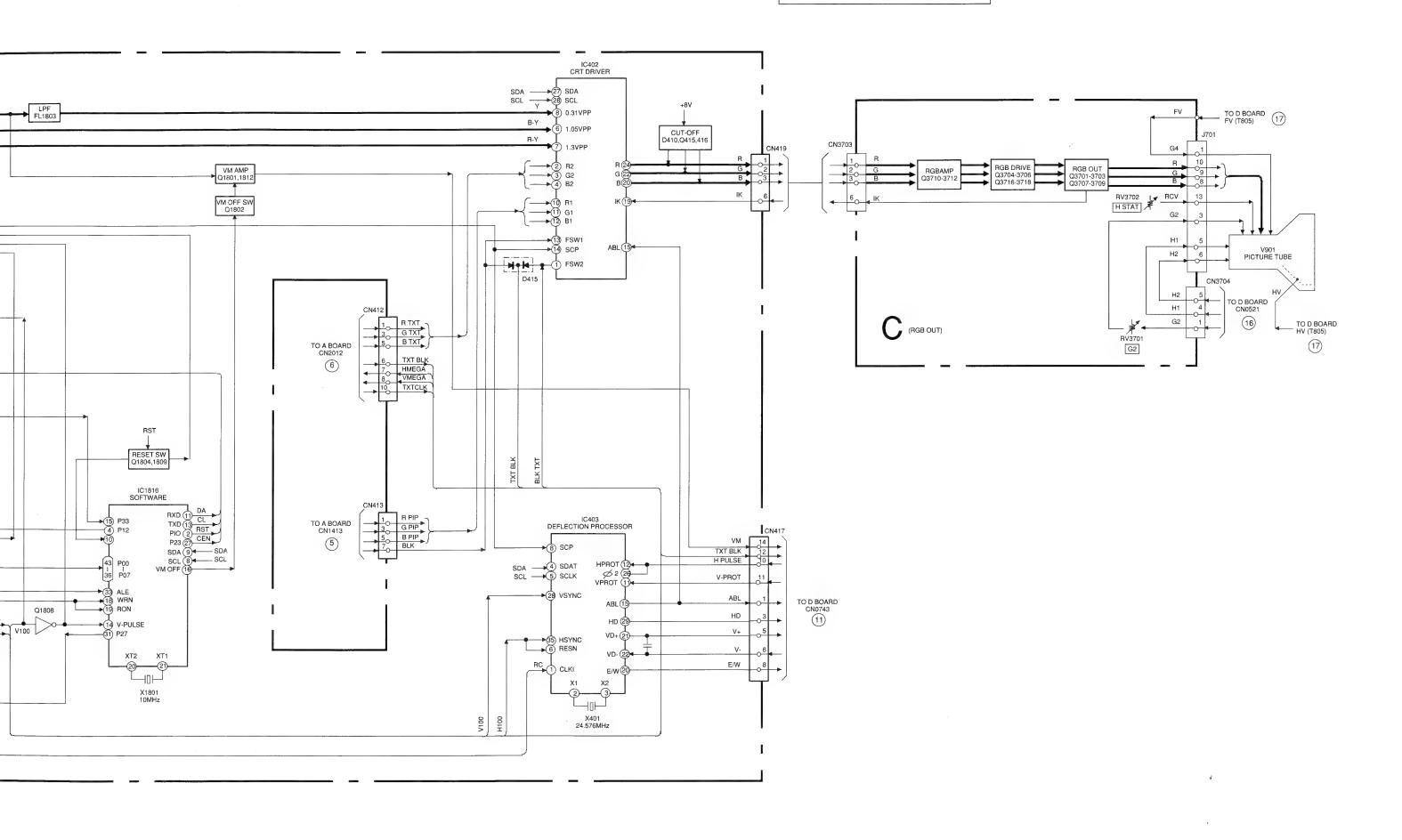
BLOCK DIAGRAM (2)



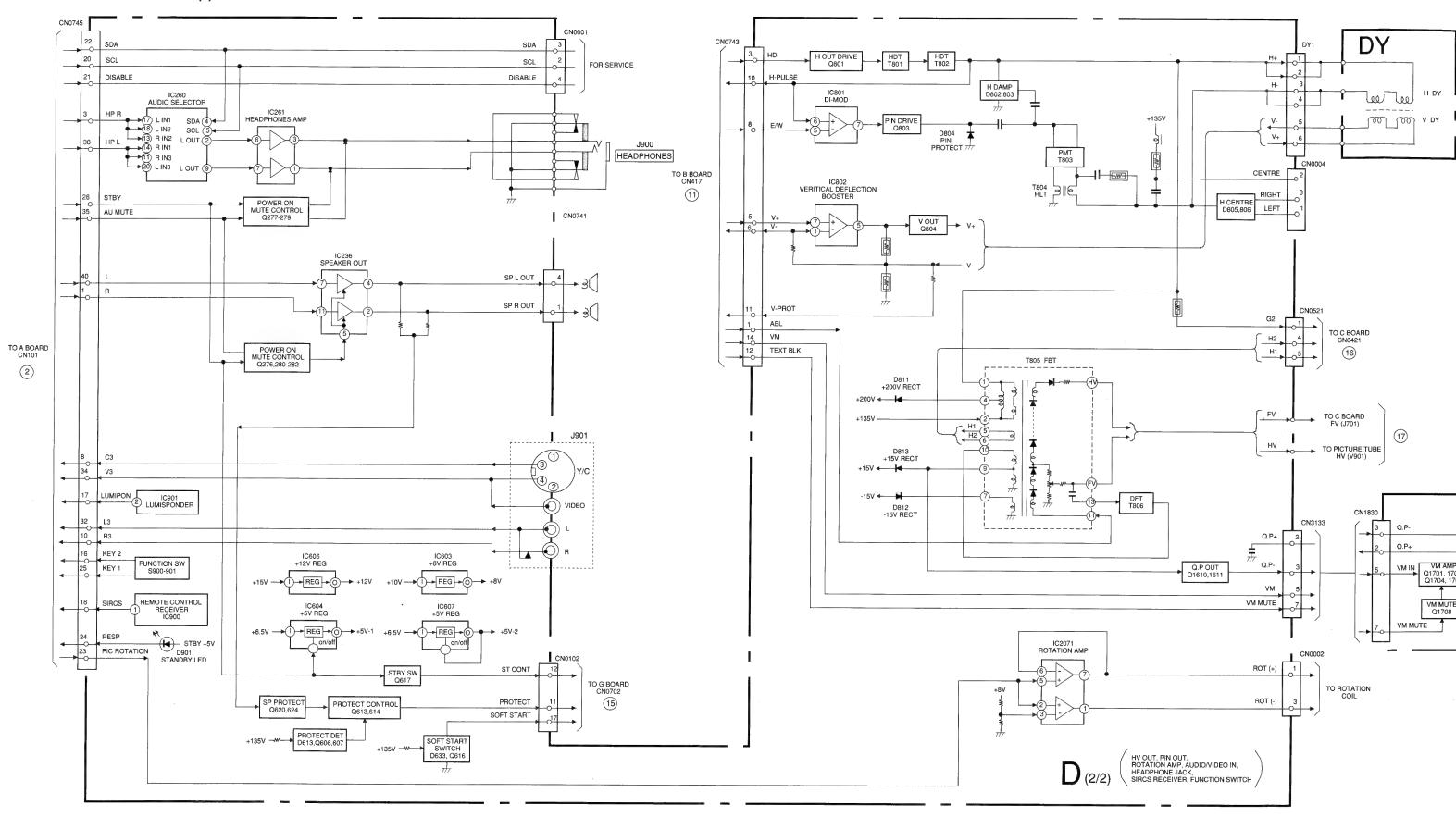
BLOCK DIAGRAM (3)



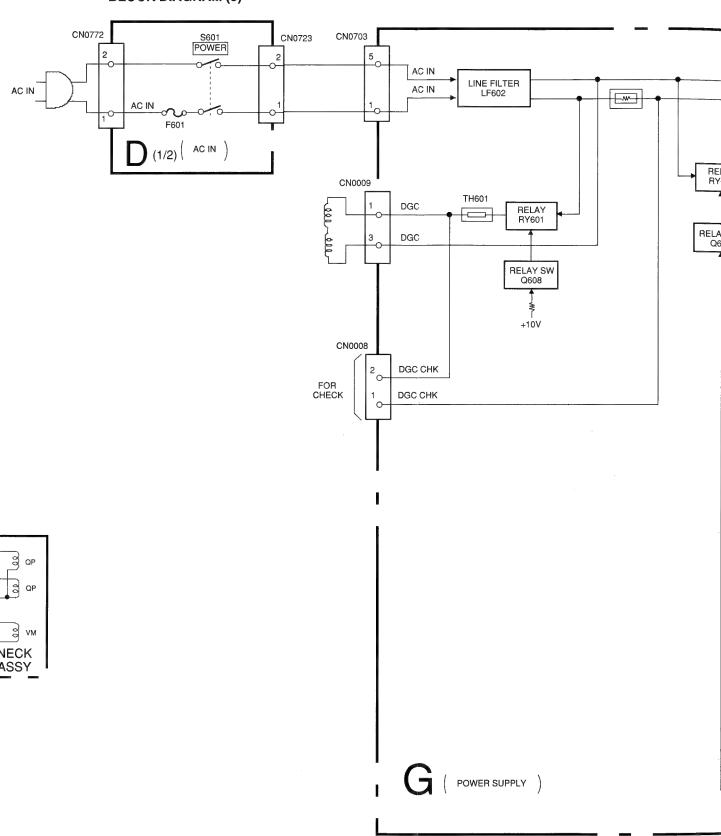
KV-29C3

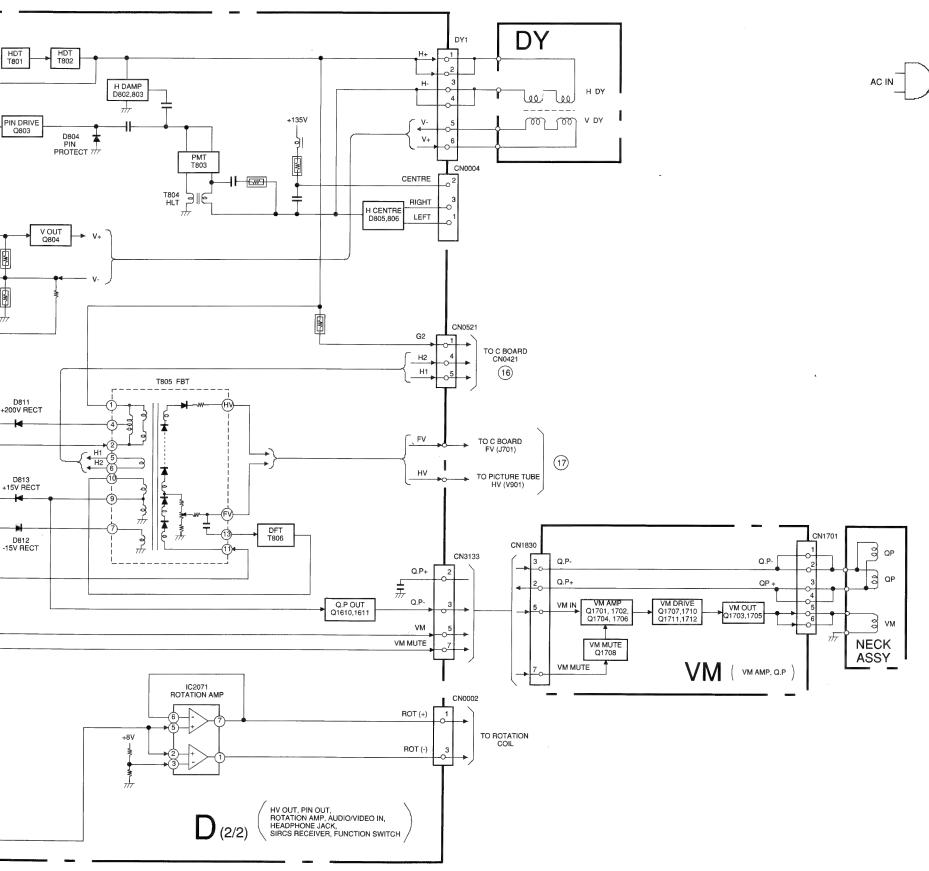


BLOCK DIAGRAM (4)

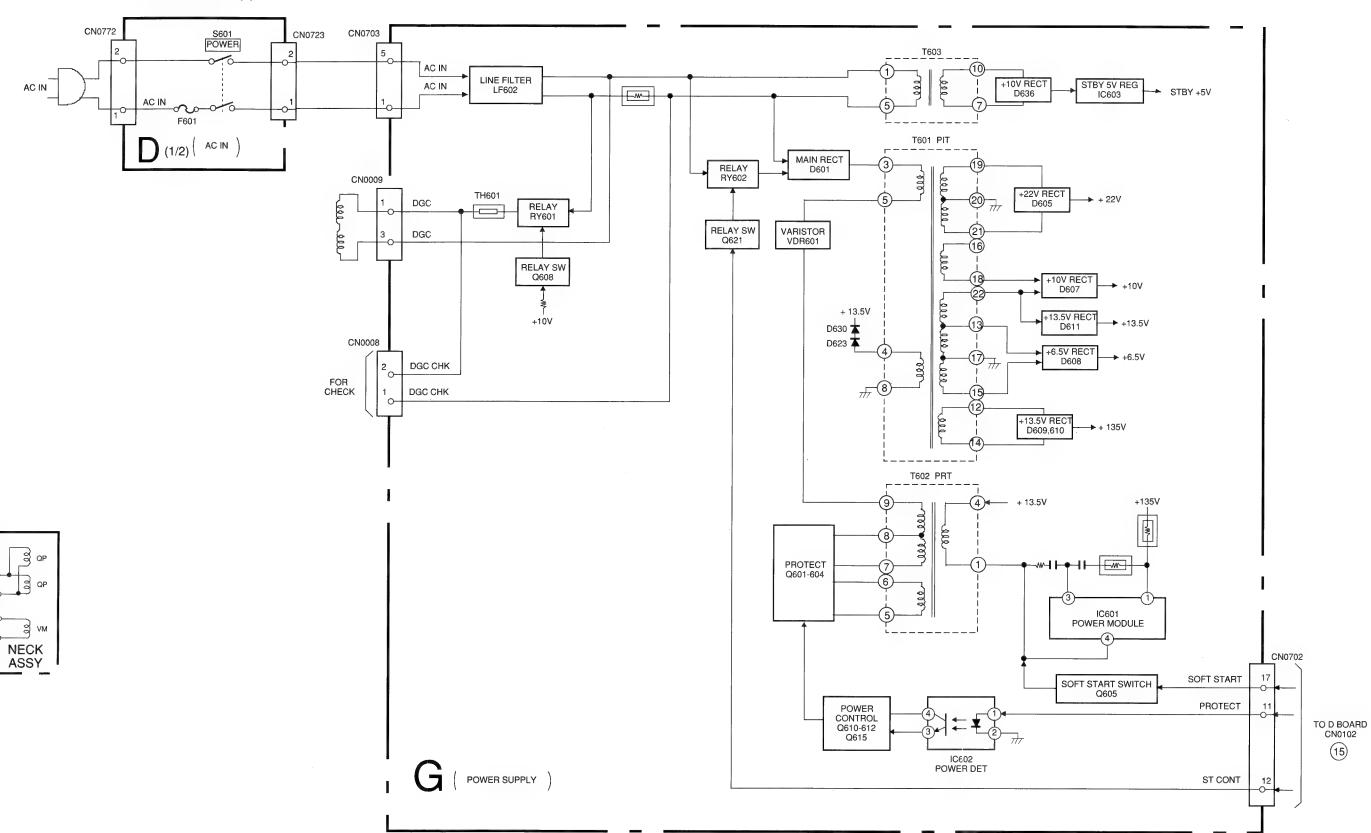


BLOCK DIAGRAM (5)





BLOCK DIAGRAM (5)



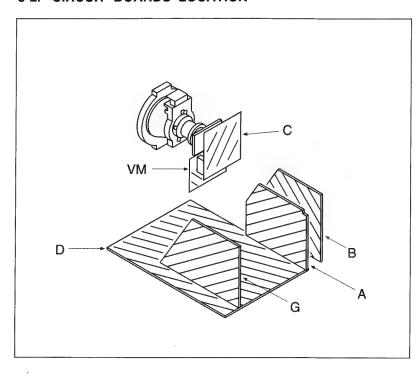
KV-29C3

KV-29C3

AV INPUT/OUTPUT INTERFACE, COLOR DECODER SOUND PROCESSOR, MICRO CONTROLLER, MEG

A Board < Conductor Side >

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
- k = 1000 , M = 1000K
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

: nonflammable resistor.
\(\triangle \)
: internal component.

• : panel designation, or adjustment for repair.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Note: Les composants identifies par une trame et une marque 🏤 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Reference information

: RN

RESISTOR

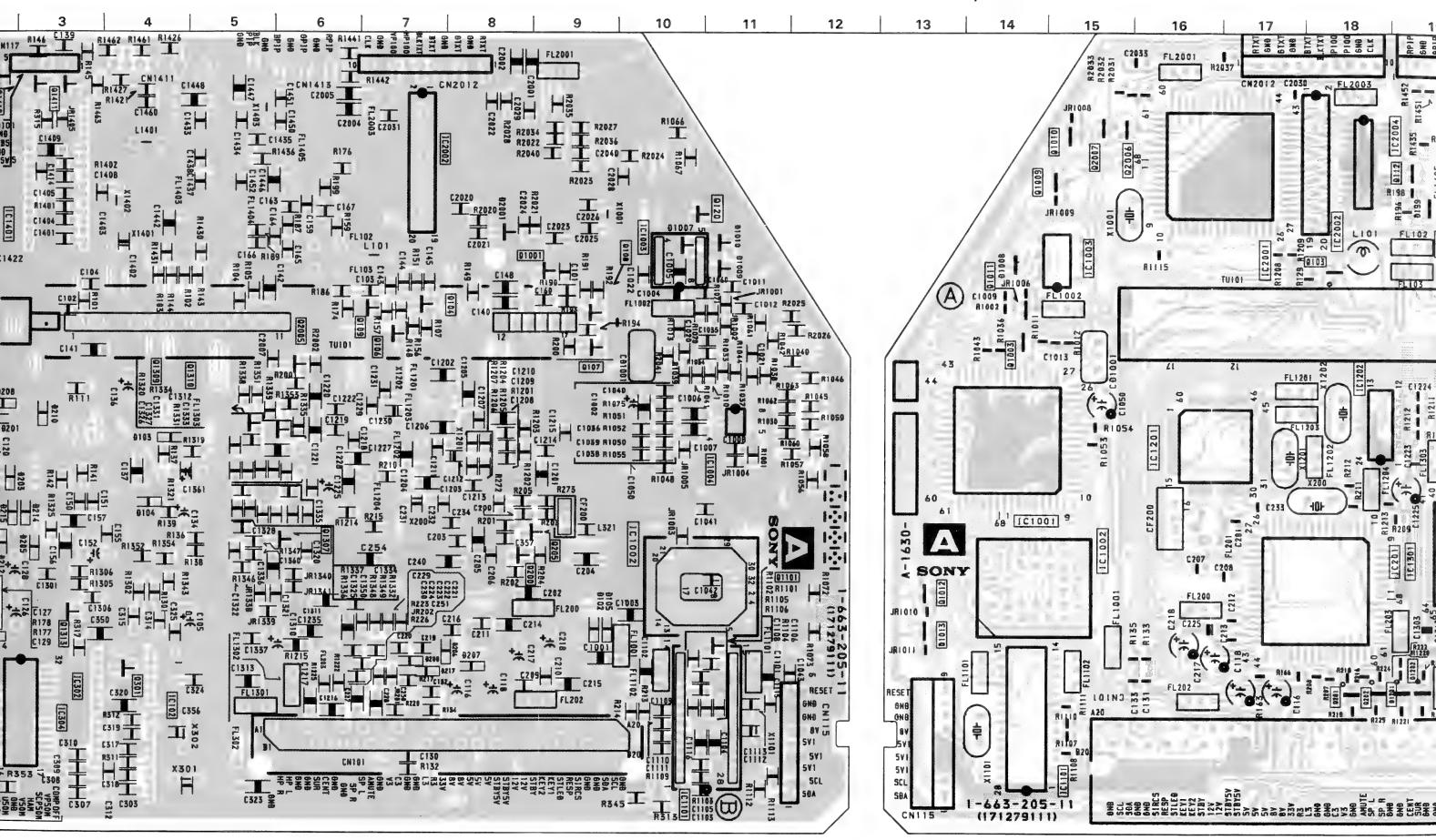
: RC SOLID : FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : RS NONFLAMMABLE METAL OXIDE : RB NONFLAMMABLE CEMENT : RW NONFLAMMABLE WIREWOUND \times ADJUSTABLE RESISTOR COIL : LF-8L MICRO INDUCTOR CAPACITOR : TA TANTALUM : PS STYROL : PP POLYPROPYLENE : PT MYLAR : MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE : ALB **BIPOLAR** : ALT HIGH TEMPERATURE HIGH RIPPLE

METAL FILM

- Readings are taken with a colour-bar signal input.
- Readings are taken with $10M\Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

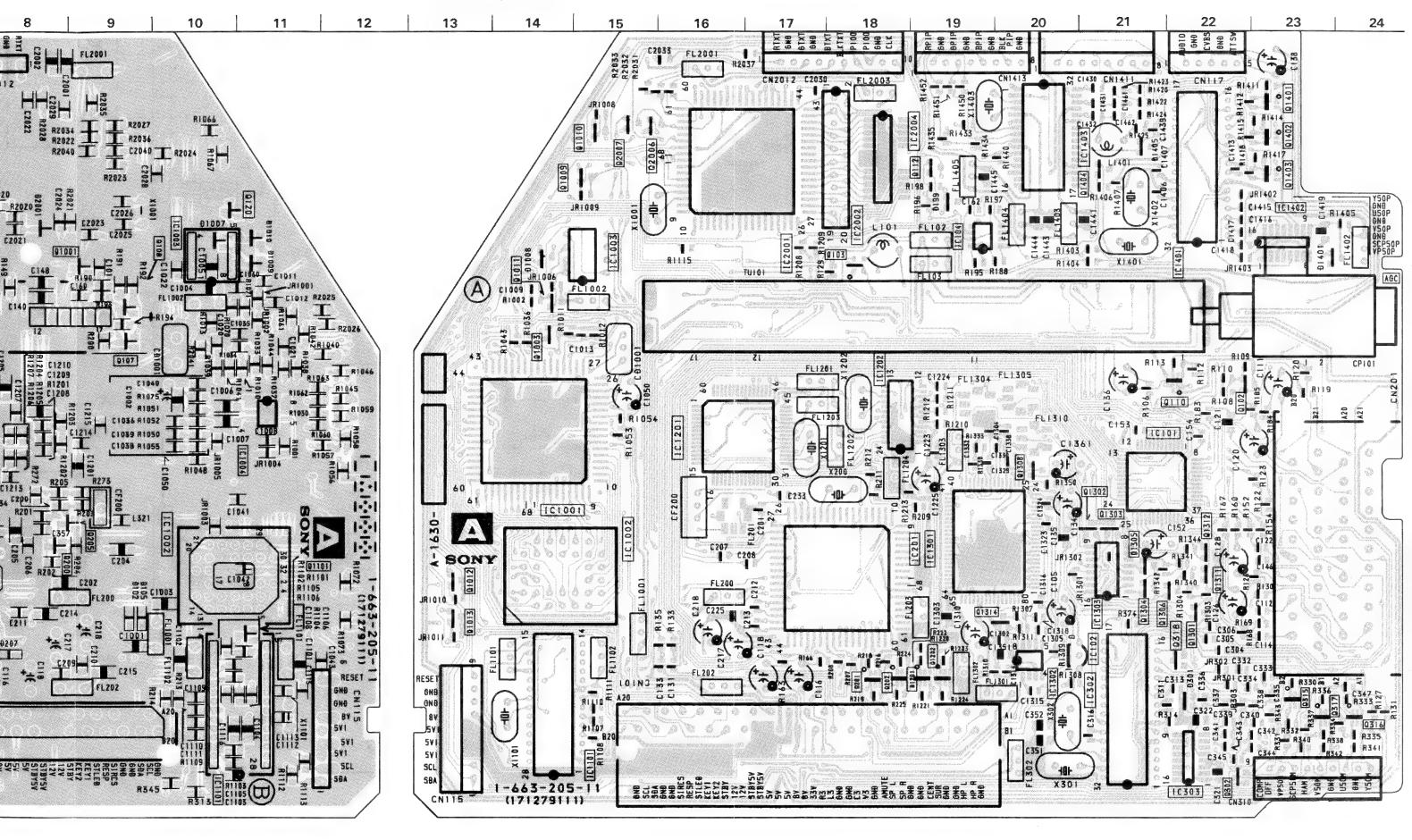
A BOAF	RD				1	2	3	4		5	6
ŀ	С	Q1404	B-21	1 T		CN117	R146 C139	R1462 R1461	R1426		2 2 2
IC101	E-22	Q1411	A- 3]			
IC102	H-4	Q1412	A-2	A		~ ≨H7	LI	如工 學	1411 C1448	Ше	GCN141
IC104	C-19	Q2005	D-6			四月7		R1427	• -	HE.	E C20
IC201	G-19	Q2006	B-15					E 146	0 = -	ᆸᇸᆛ	_E
IC302	H-3	Q2007	B-15			P AUBIOI	الله الله الله الله الله الله الله الله	L140	° aH		TS F
IC303	1-22	DIC	ODE			H GND CVBS	C1409	_	91	る上間	155 <u> </u>
IC1001	F-14	D102	G-9	1 B		31 ATT 5 <u>V</u> 5	L-I	R1402	3 7		Th
IC1002	G-10	D103	E-4		j	∄H T	154	C1408	23+	-5.5	L
IC1003	C-10	D104	F-4	-			R1401	HIE	63 63	₽ C163	
IC1004	E-11	D105	G-9		142	101.101	C1404	2 2 2 X 401	≨ ∐ ≥	€ E	급리
IC1401	C-2	D199	C-19	С	777° -		C1401-		3 3	Ŧ	™ 28 82
IC1403	B-21	D200	H-7			E142Z		H	H	C166 RING	HE
IC2001	C-17	D201	E-2			+""		104		RIOS	2
TRANS	SISTOR	D202	D-2	-	P.			L			910
Q102	E-23	D203	F-3				<u>C102</u>	RIOI	R143 R102 R144 R163	$H^{(1)}$	n i o
Q103	C-18	D204	H-2		R155 I	CPIDI	T.T	()			
Q104	D-8	D205	F-3	D		1		<u> </u>		C2007	
Q106	D-7	D206	H-8	_	2 02	02	C141	I			28
Q107	D-9	D207	H-8						01310	R 351	200
Q108	C-10	D208	E-2			≈* 本 章 8288	I	*	워, 티		1353
Q109	D-7	D209	E-2		s		LIS AT	3. 52			工訂
Q110	E-22	D210	E-3	E	3	1 5201	H210		3 33 3	FH	للألا
Q112	B-19	D211	F-2		2 , B E	18 2 - 1 -		0103	R1319	山土	
Q120	C-11	D212	G-2		0.50	人民人的	10000	1 1	HE, I	1001	
Q200	G-8	D213	G-2		742A		: 3H F		, ph	HHHH	
Q205	F-9	D214	F-3		XOX	Q 前 ^{Us}	, 시 ·		_ \frac{2}{25} \text{C1361}	\mathbf{L}^{-}	I H
Q301	H-4	D215	F-2	F	XOX:		1325	H 5 310	 .		
Q302	I-22	D217	H-7		とようよ		J, H.	- 1 i=	R139 및	I (1329)	11 11 15
Q315	H-23	D218	G-1		E VETU	ŬI™ ŝ	1 Jun 6	152 R1352	R1554	$\Box \mathbf{I} \dot{\lambda}$	
Q316	I-24	D219	H-1			22,		T T	I R158		E1360 8
Q317	I-24	D220	H-1	G		Δ	c1301	_R1306 코 R1305 멀 ()	###	R1346	JR134
Q318	H-22	D221	G-1	9	の文で	大量工	6		-R-3		2 JR13
Q1001	C-9	D223	E-2		TAYA	¥ ∓ ¥	\$ C127 _	C350 3 4 2		5.2工	型 C1235
Q1301	H-22	D301	H-22		#XQX		R178 R177 R177 C129 W	200	TH~	JK1559	
Q1305	G-21	D1007	C-10		"XOX	5204	[C129]			E 1337	
Q1311	G-22	D1008	C-14	H		- 623	7_*	H	-	C1313	R1215
Q1312	F-22	D1009	C-11		一十十十十二	C346	16302	C320 ES	C324		F.
Q1401	A-23	D1010	C-11	CMZO		18375 161 3	SERVICE AND	[320日	5	FL1301	
Q1402	B-23	D1405	B-21			23	IC304	RS12		14	
Q1403	B-23	D2001	C-8		FB101 C117 P12 P13 P14 P15	R322	BIND A CENTURY ON BUILDING STAND	C319 ±	工 资	FL3112	
						- L 932	C310	R317	22	2 19	
						o R35	」	- H士	X301	_	EXOPO
					CN310	TT	_8<€ 1	E318	H		2 335
					CN310	352 585		7 2 C303		C323 景	
						1					
				1							

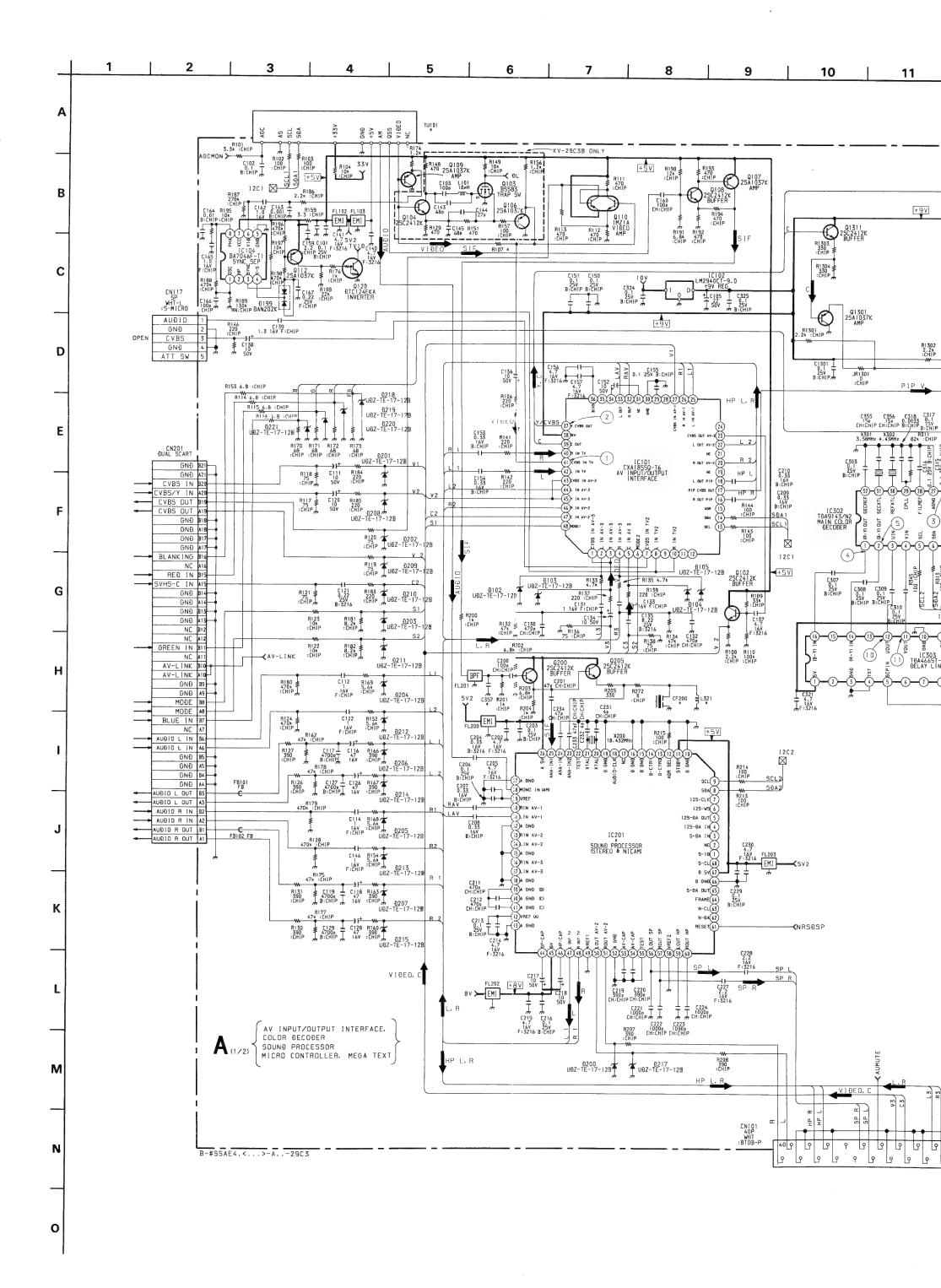
A Board < Component Side >

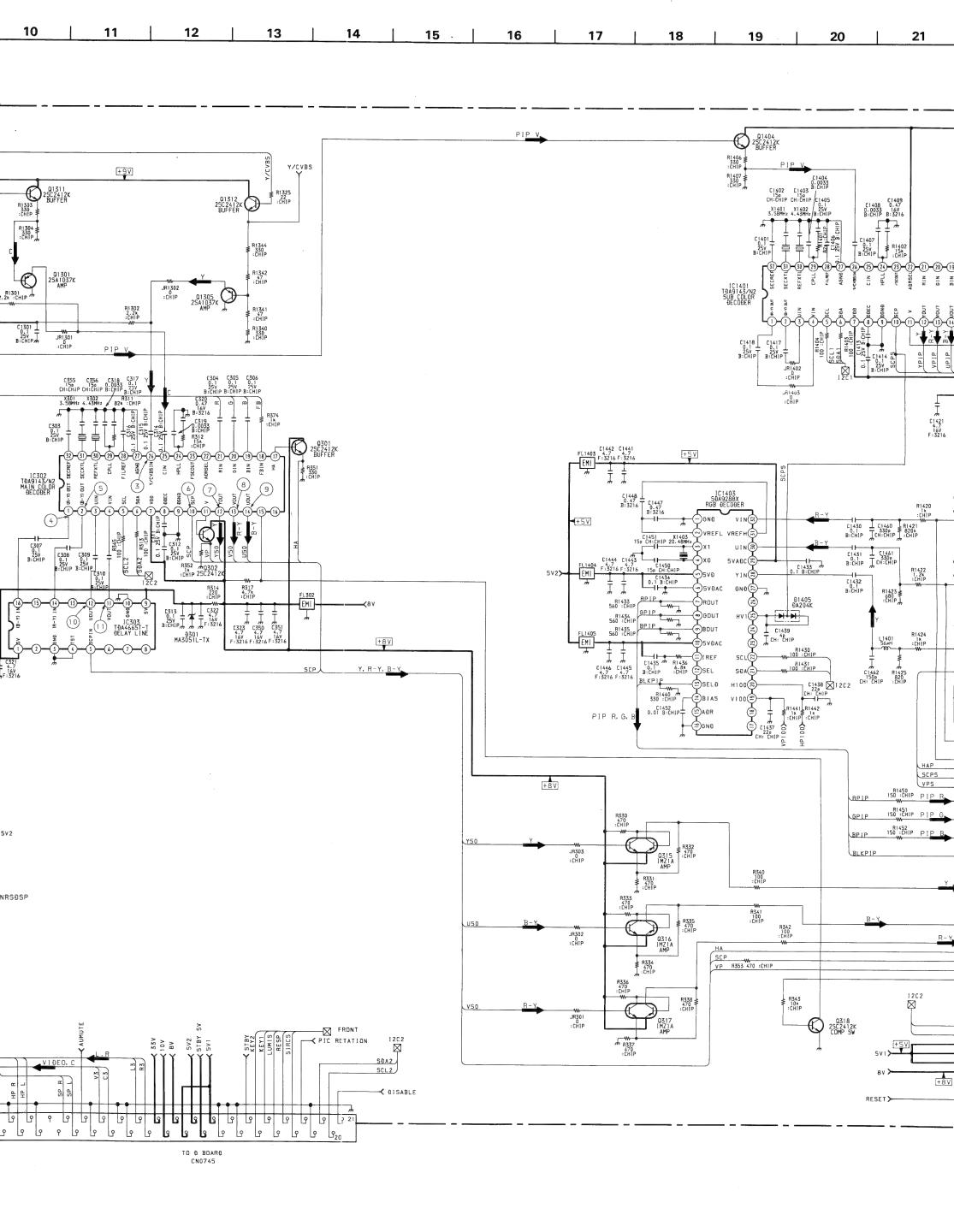


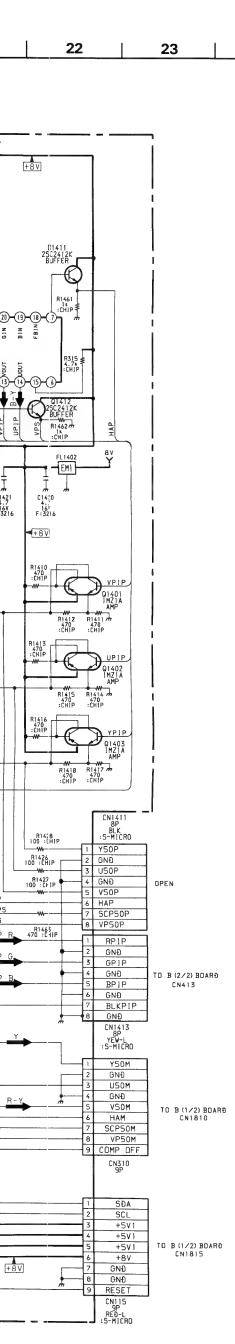
KV-29C3 KV-29C3

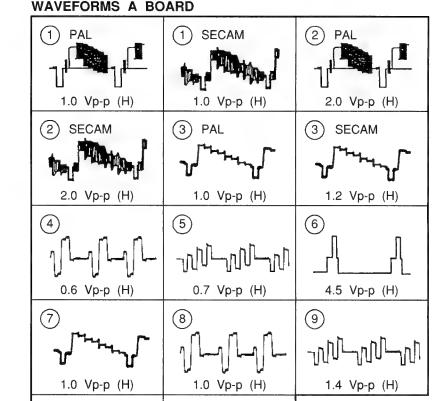
A Board < Component Side >











1.0 Vp-p (H)

A (1/2) BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table				
Ref No	B Base	C Collector	E Emitter	
Q102	1.9	4.7	1.3	
Q105	0.08	4.5	0.08	
Q107	4.4	1.7	5.0	
Q108	1.8	4.4	1.2	
Q112	4.3	4.9	5.0	
Q120	4.6	0.1	0.1	
Q301	0.5	8.0	0.4	
Q302	-	8.0	0.3	
Q318	0.1	5.2	0.1	
Q1201	8.6	5.0	9.2	
Q1202	0.7	5.0	9.2	
Q1301	1.9	-	0.2	
Q1302	-	-	0.6	
Q1303	0.8	-	1.5	
Q1304	2.2	-	0.1	
Q1305	2.0	-	0.1	
Q1306	1.7	-	-	
Q1307	-	3.4	0.1	
Q1308	3.5	4.7	2.9	
Q1309	0.9	0.1	1.6	
Q1310	1.0	0.1	1.6	
Q1311	4.5	9.0	3.9	
Q1312	4.5	9.0	-	
Q1313	4.6	0.7	0.1	
Q1314	4.8	4.7	4.3	
Q1404	4.5	7.8	3.8	
Q1411	0.5	8.0	0.6	
Q1412	0.1	8.0	0.1	
Q1201	2.6	8.6	2.1	
Q1202	2.6	8.6	2.1	

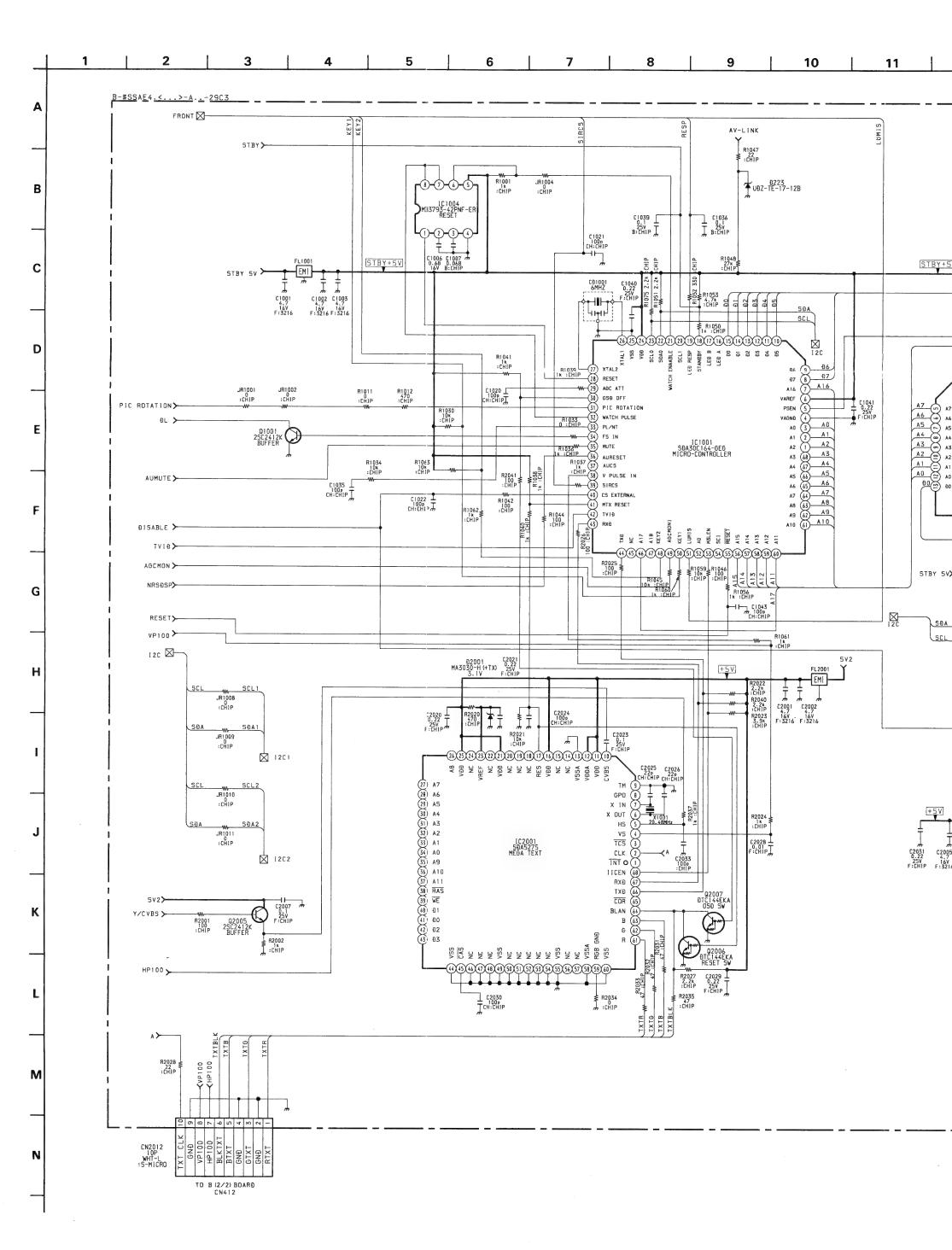
A (1/2) BOARD IC VOLTAGE TABLE

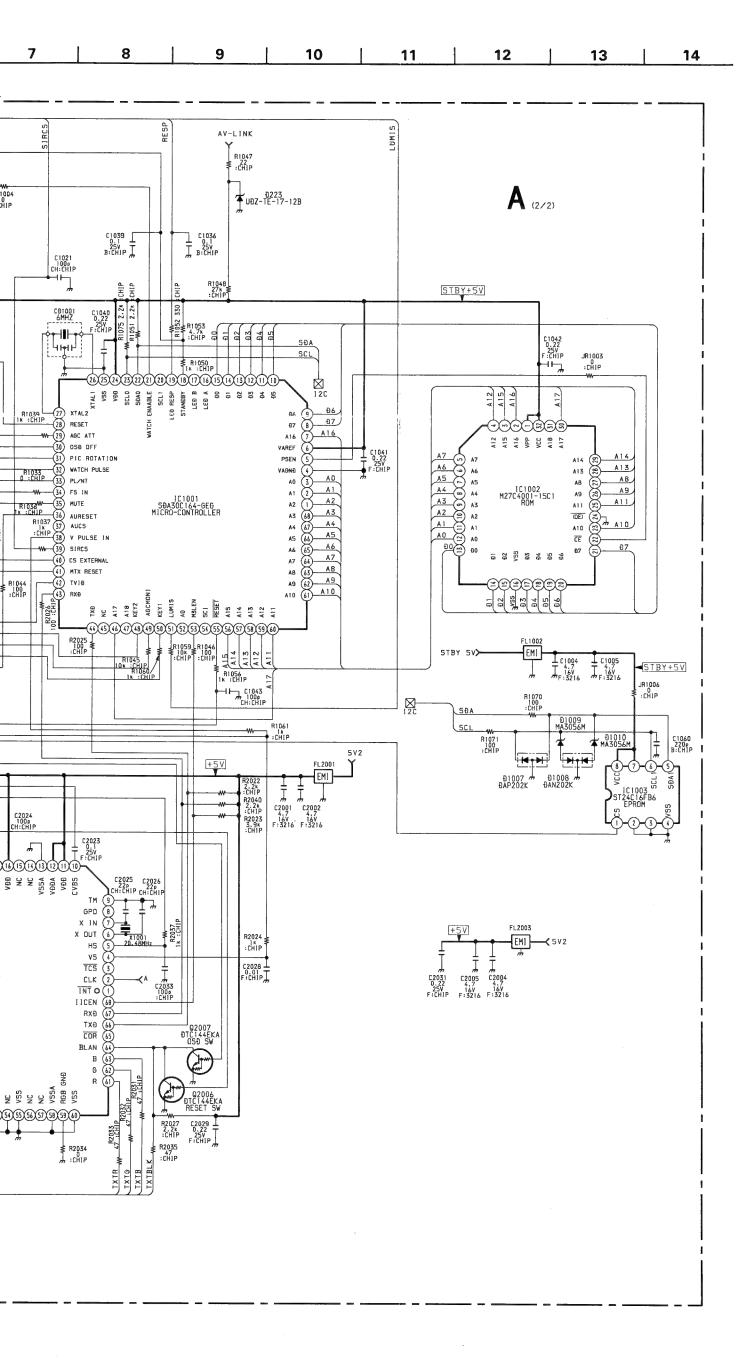
1.5 Vp-p (H)

					_
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V
	4	0.5		4	4.7
	5-6	4.7		13	4.7
	7	2.4		31	4.7
	8-9	4.7		35	4.7
	20	2.4		37	2.7
	24	4.4		39	2.2
	25	8.8		40	2.7
	26	4.4	IC1201	41	4.7
	28	3.8		45	4.8
	29	2.7		29	2.7
IC201	30-31	3.8		30-31	3.8
	39-42	3.8		39-42	3.8
	44	6.2		44	6.2
	45	8.0		45	8.0
	46	7.0		1	5.0
	47-48	3.8		5	0.6
	50-51	3.7	IC 303	11-12	3.0
	53-54	3.8		14	1.4
	56-57	1.2		16	1.2
	61	4.8		1-2	2.0
	1-2	2.0	1	3-4	2.4
	3-4	2.4		5	3.5
	5	3.0	_	6	4.0
	6	4.0		7	7.8
	7	8.0		8	5.0
	8	5.0		10	0.8
	10	0.5		12	2.4
	12	3.2		13-14	2.6
10000	13-14	2.6	IC1401	15	8.0
IC302	15	8.0		17	0.3
	17	0.3		22	7.8
	19	1.6	1	24	3.6
	21	1.0		26	3.3
	23-24	4.0		28	3.5
	26	3.7		29	4.3
	28	3.5		30	2.6
	29	5.0	1	31	2.6
	30	2.5	1	32	3.8
	31	2.5			
	32	2.0	⊣		

A BOARD * MARK

Model Ref. No.	29C3A	29C3B	29C3D	29C3E	29C3K	29C3R
C357	39PF	39PF	39PF	_	39PF	39PF
CF200	6.5MHz	6.5MHz	6.5MHz	_	6.5MHz	6.5MHz
IC201	MSP3400C-PP-C6-T-ND	MSP3410.3-PS-F7-T-ND	MSP3400C-PP-C6-T-ND	MSP3410B-PS-F7-T-ND	MSP3400C-PP-C6-T-ND	MSP3400C-PP-C6-T-ND
L321	10UH	:0UH	10UH	_	10UH	10UH
TU101	TUVIF (AEP)	TUVIF (FR)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (AEP)



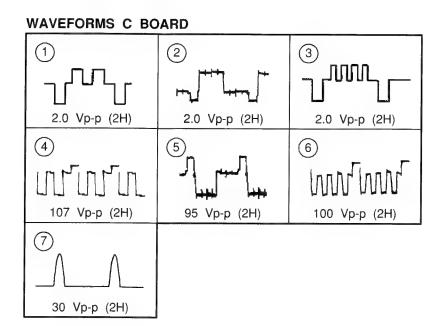


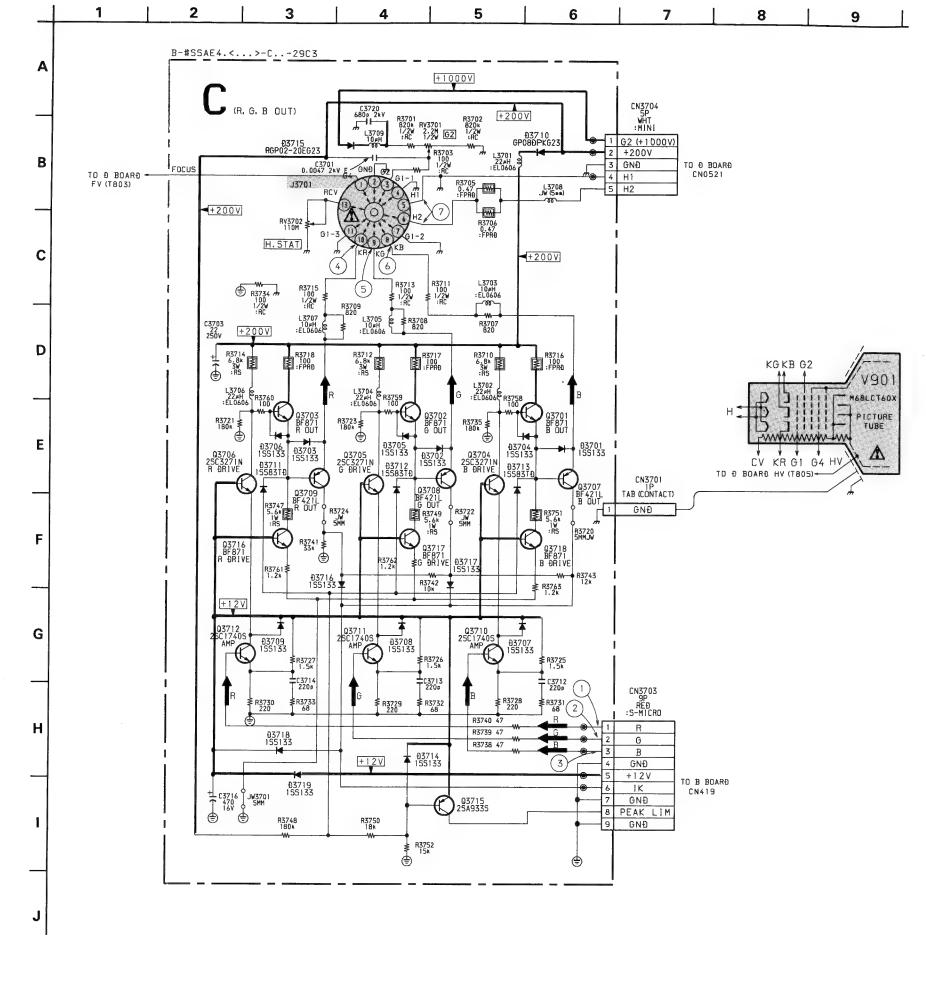
A (2/2) BOARD IC VOLTAGE TABLE

		IC Vo	ltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
	1-5	4.6		1	4.8
	7-8	4.6		2	1.1
	10	4.6		4	0.9
	17	4.6		5	0.3
	23	4.6	7,,,,,,	6-7	2.4
IC101	29	4.6	IC1101	8	1.4
	31	4.6		9	4.7
	34	4.6		10	1.7
	36	4.6		11	1.5
	38	9.0		16	4.0
	40-47	4.6		18-20	4.7
	5	2.4	7	21	2.5
	6	4.8	1	22	2.3
	19	3.6		2	0.4
	20	0.1		5	0.3
	24	4.8		6-7	1.6
	26	2.1	7	8	4.0
	27	2.3		10	1.0
	28	4.6	IC2001	11-12	4.7
	30	0.1	102001	16	4.7
	31-32	2.4		21	4.7
	33	4.8		23	2.9
IĊ1001	36	4.1		25	4.7
101001	38	0.1		66	4.7
	39	0.6		68	4.7
	40	4.8			
	41	0.1			
	42	4.8			
	43	4.4			
	44	4.1			
	48	4.8			
	49	2.2			
	50	4.8			
	52	4.8			
	54	4.8			

A (2/2) BOARD TRANSISTOR VOLTAGE TABLE

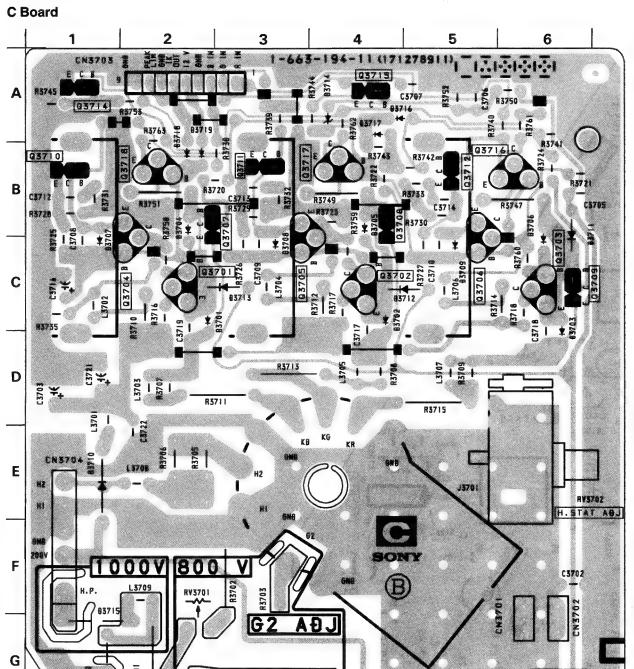
Transistor Voltage Table				
Ref No	B Base	C - Collector	E Emitter	
Q1001	0.1	0.7	0.1	
Q1004	0.1	0.7	-	
Q1101	3.3	5.0	2.6	







KV-29C3 KV-29C3



CBOARD

	C BOARD				
	TRANS	SISTOR			
	Q3701	C-2	1		
	Q3702	C-4			
	Q3703	C-6			
	Q3704	C-2			
	Q3705	C-3	l		
	Q3706	C-5			
	Q3707	B-3			
	Q3708	B-4			
	Q3709	C-6			
	Q3710	B-1			
	Q3711	B-3			
	Q3712	B-5			
	Q3715	A-4	Ì		
	Q3716	B-6			
	Q3717	B-4			
	Q3718	B-2			
	DIC	DE			
	D3701	C-2			
	D3702	C-4			
	D3703	D-6			
	D3704	B-2	l		
	D3705	B-4			
	D3706	B-6	l		
	D3707	C-1	l		
	D3708	C-3	l		
	D3709	C-5			
	D3710	E-1	ŀ		
	D3711	B-6			
	D3712	C-5			
	D3713	C-3	١		
	D3714	A-4	l		
ı	D3715	G-1			
	D3716	A-5			
	D3717	A-4			
	D3718	A-2			
	D3719	A-2			
	VARI	ABLE			
	RESIS	STOR			
	RV3701	F-2			

RV3702 E-6

R3734

VM BOARD TRANSISTOR VOLTAGE TABLE Transistor Voltage Table Q1701 0.8 Q1702 1.8 0.2 Q1703 24.0 Q1704 0.5 1.2 Q1705 0.1 Q1706 0.4 1.1 1.5 2.1 Q1708 Q1710 1.1 1.2 Q1711 1.4 2.1 1.3 Q1712 1.3 1.2

VM (VM AMP. Q.P)

+135V

5

+12V

R1707

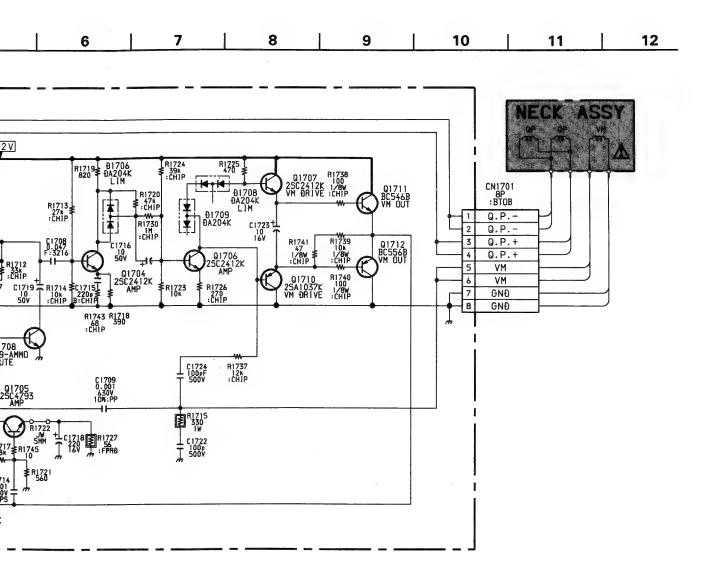
6

CN1830

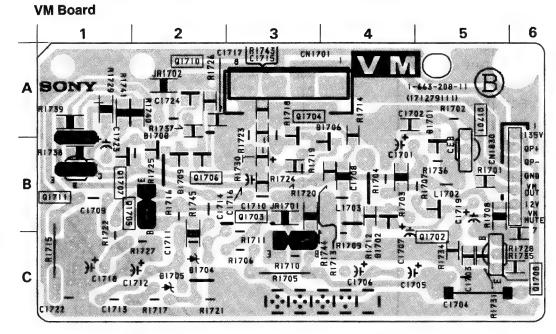
BLK :S-MICRO +135V Q.P+ Q.P-GNĐ

VM IN +12V VM-MUTE

TO D BOARD CN3133





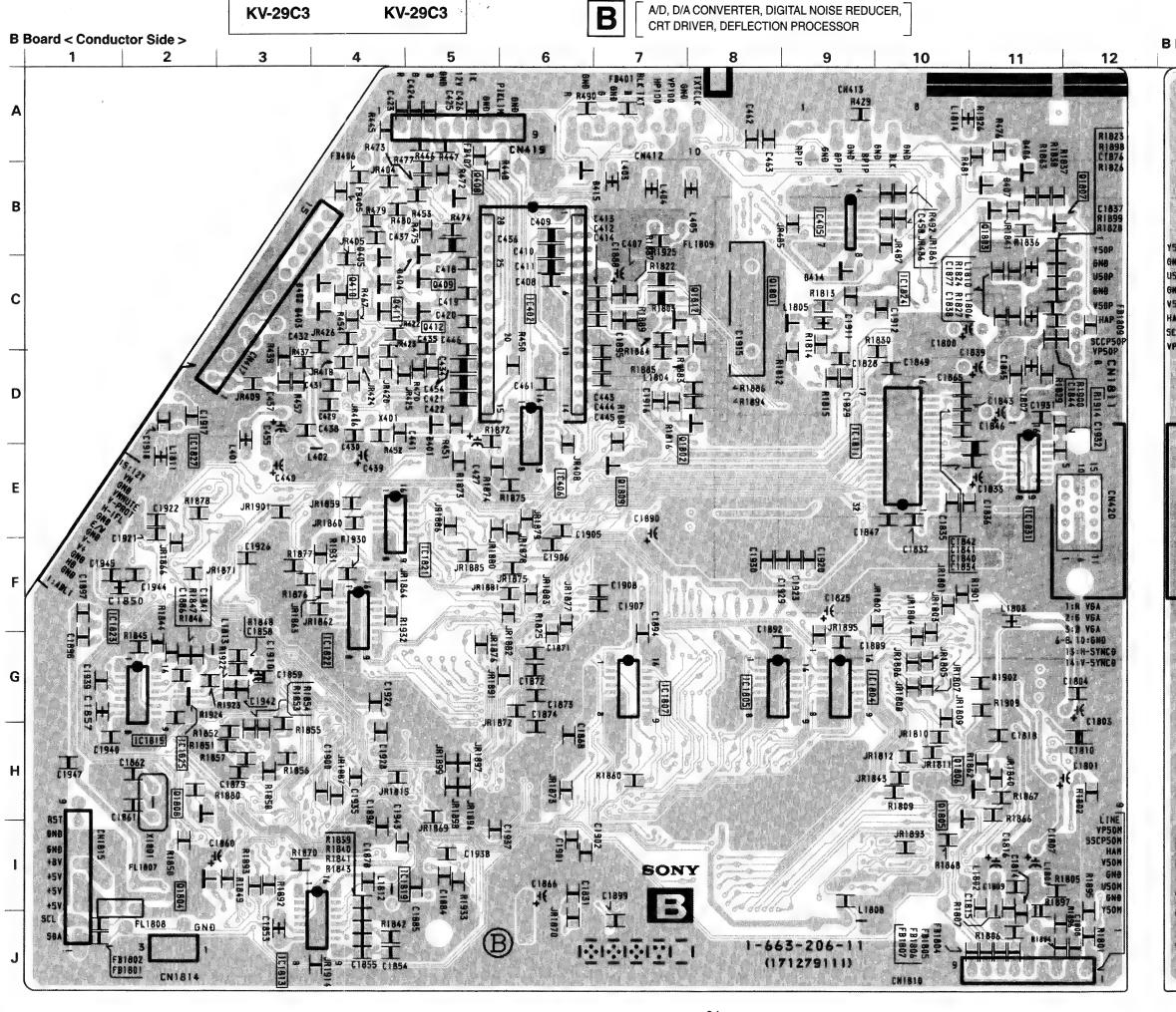


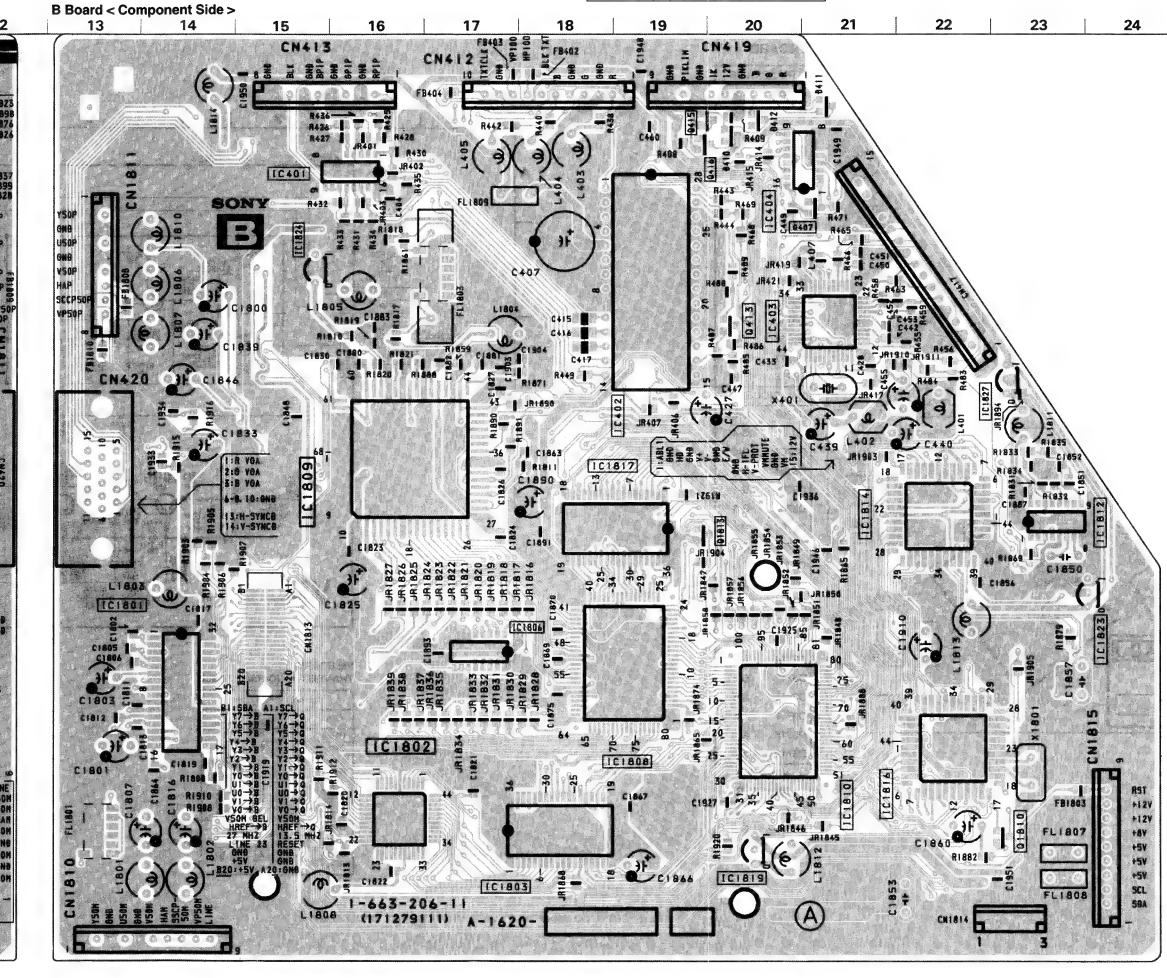
VM BOARD

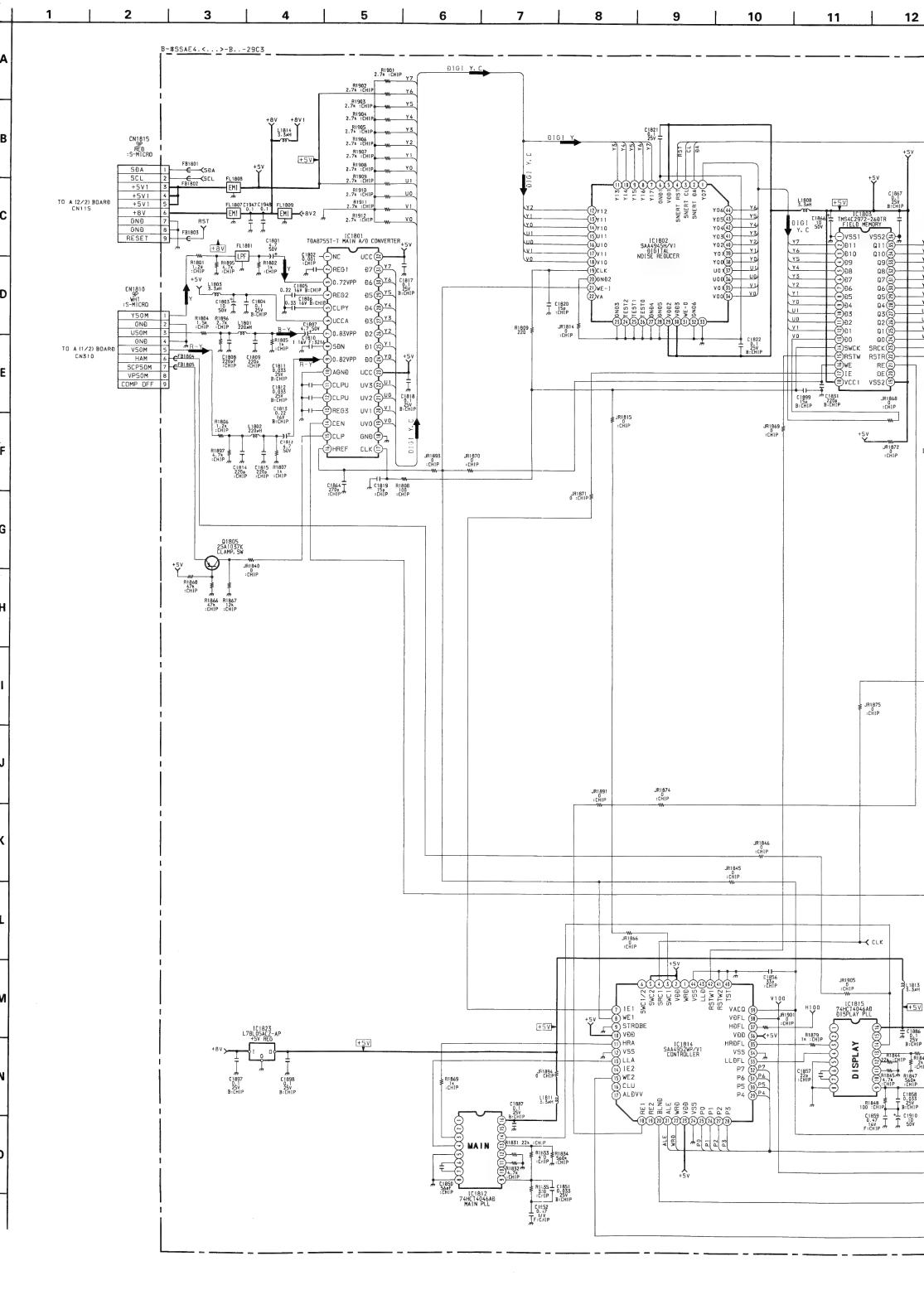
TRANSISTOR				
Q1701	A -5			
Q1702	C-5			
Q1703	B-3			
Q1704	A-3			
Q1705	B-2			
Q1706	B-2			
Q1707	B-1			
Q1708	C-6			
Q1710	A-2			
Q1711	B-1			
Q1712	A-1			
DIC	DDE			
D1701	A-5			
D1702	C-4			
D1704	C-2			
D1705	C-2			
D1706	A-4			
D1708	B-2			
D1709	B-2			

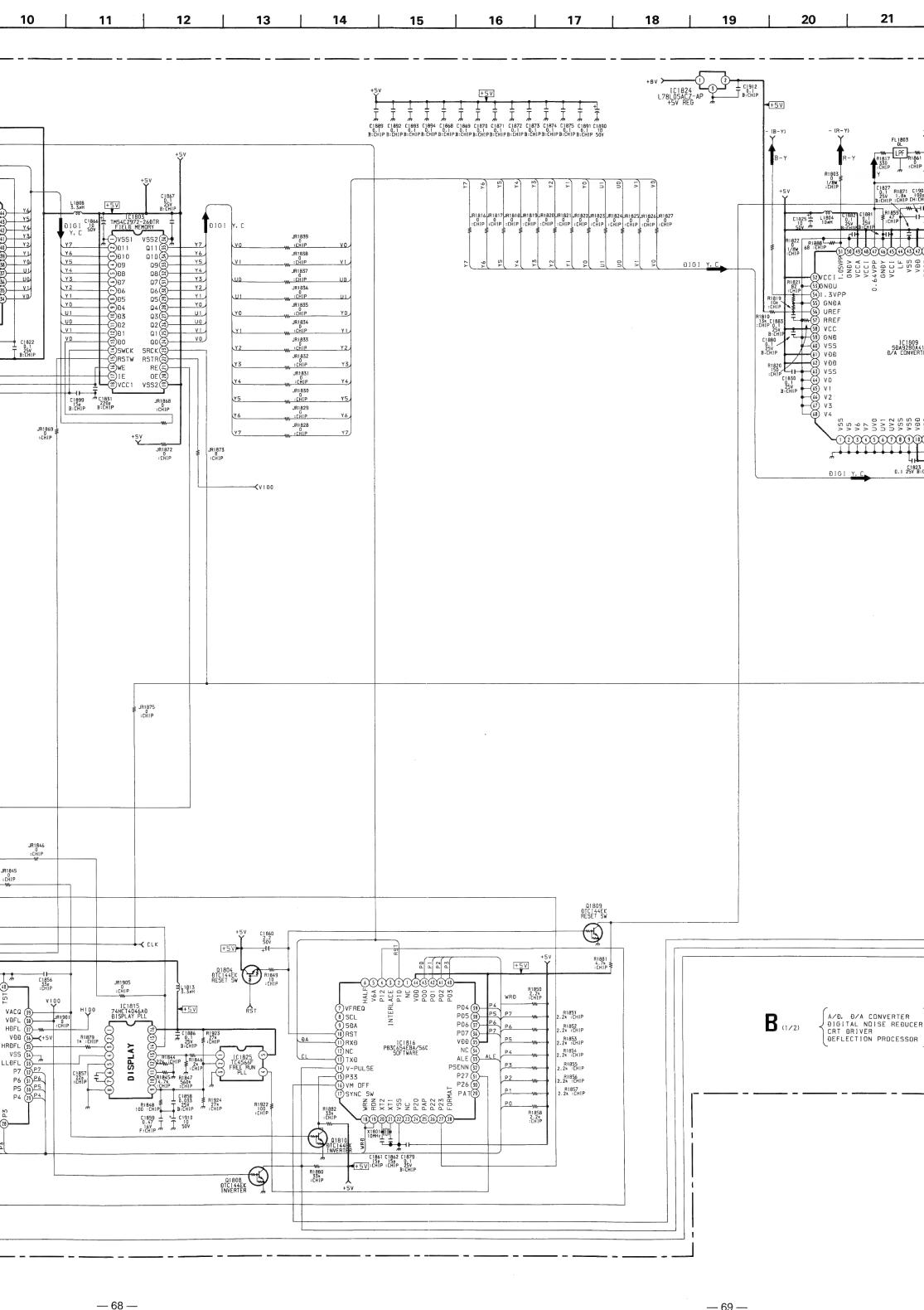
B BOARD

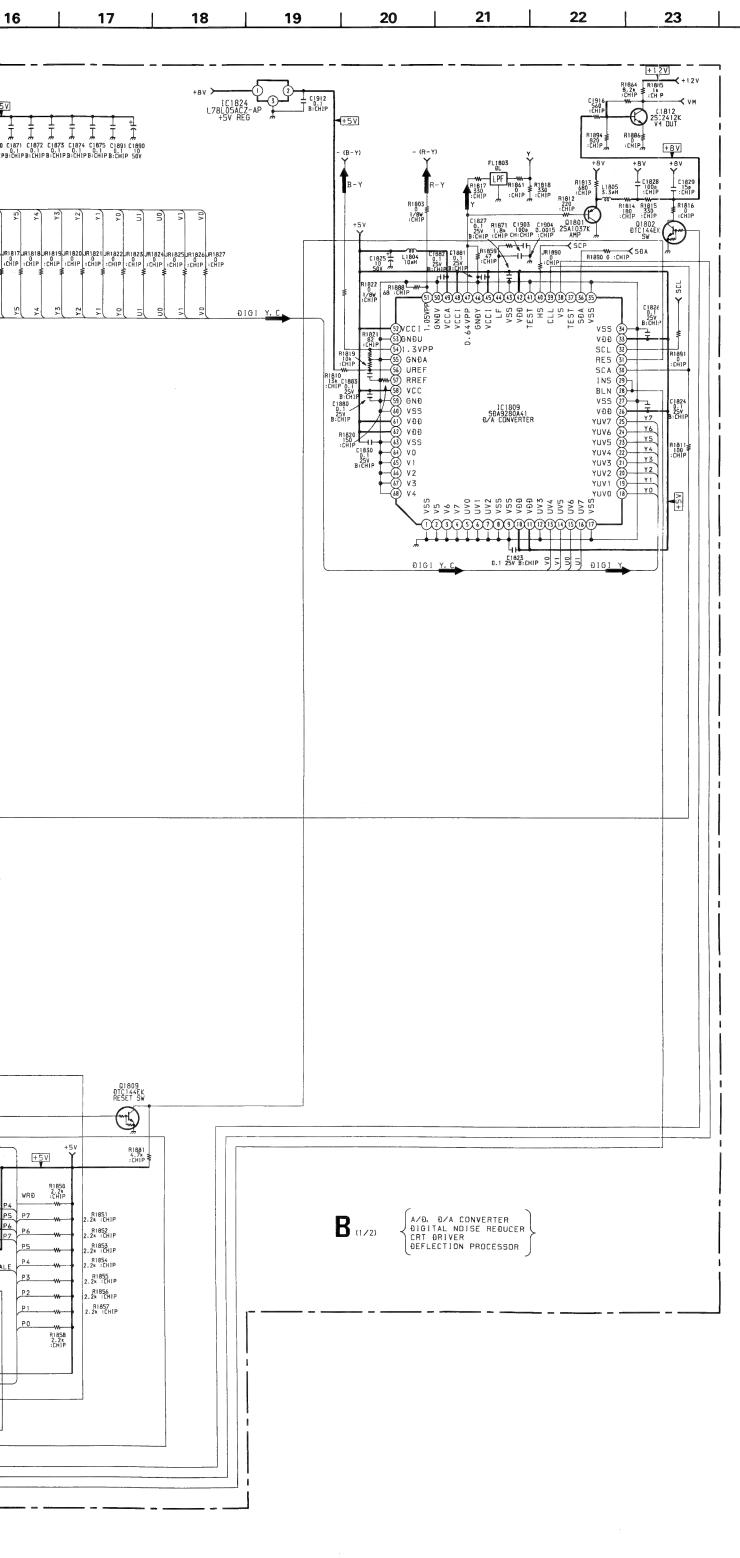
. (0		DIC	DDE
IC402	C-6	D401	D-5
IC403	D-20	D402	C-3
IC1801	G-13	D403	C-3
IC1802	H-16	D410	B-20
IC1803	I-17	D411	A-21
IC1809	E-15	D412	A-20
IC1812	F-24	D414	C-9
IC1814	F-21	D415	B-7*
IC1815	H-2		
IC1816	H-22		
IC1823	F-1		
IC1824	C-10	ŀ	
IC1825	H-2		
TRANSI	STOR		
Q415	A-19]	
Q416	B-20		
Q1801	C-8		
Q1802	D-8		
Q1804	I-2		
Q1805	H-10		
Q1808	H-2		
Q1809	E-7		
Q1810	I-23		
Q1812	C-8		











B BOARD TRANSISTOR VOLTAGE TABLE

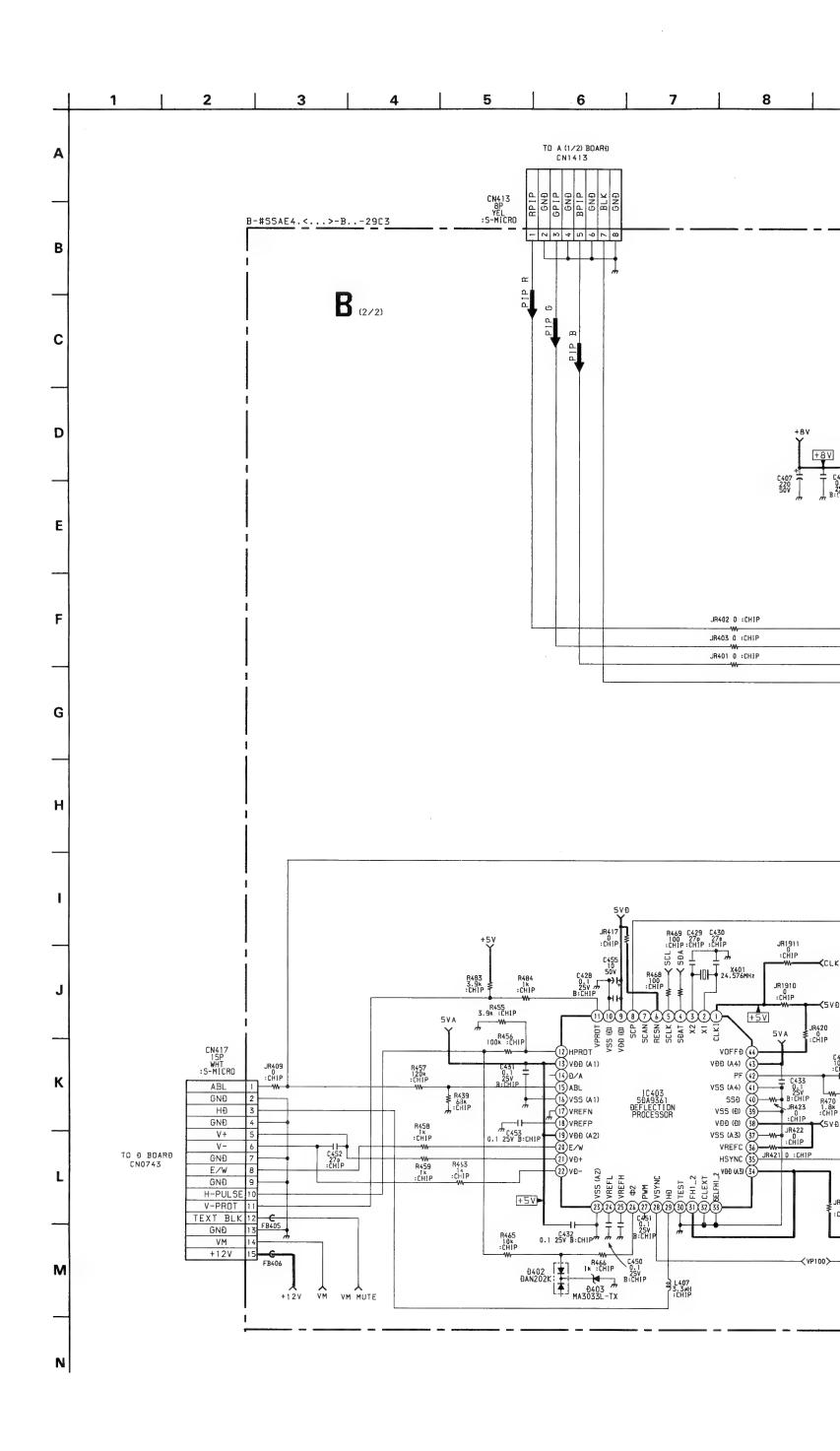
Transistor Voltage Table					
Ref No	B Base	C Collector	E Emitter		
Q411	0.1	4.8	4.8		
Q412	0.1	4.8	4.8		
Q415	1.8	0.1	-		
Q416	0.1	5.6	-		
Q1801	0.1	-	0.9		
Q1802	4.0	0.1	0.1		
Q1804	0.3	4.8	0.1		
Q1805	2.5	1.3	0.7		
Q1807	2.5	1.3	0.7		
Q1808	0.1	4.7	0.1		
Q1809	0.1	0.1	0.1		
Q1810	0.1	4.8	-		
Q1812	0.5	10.5	-		
Q1813	0.1	3.7	0.1		

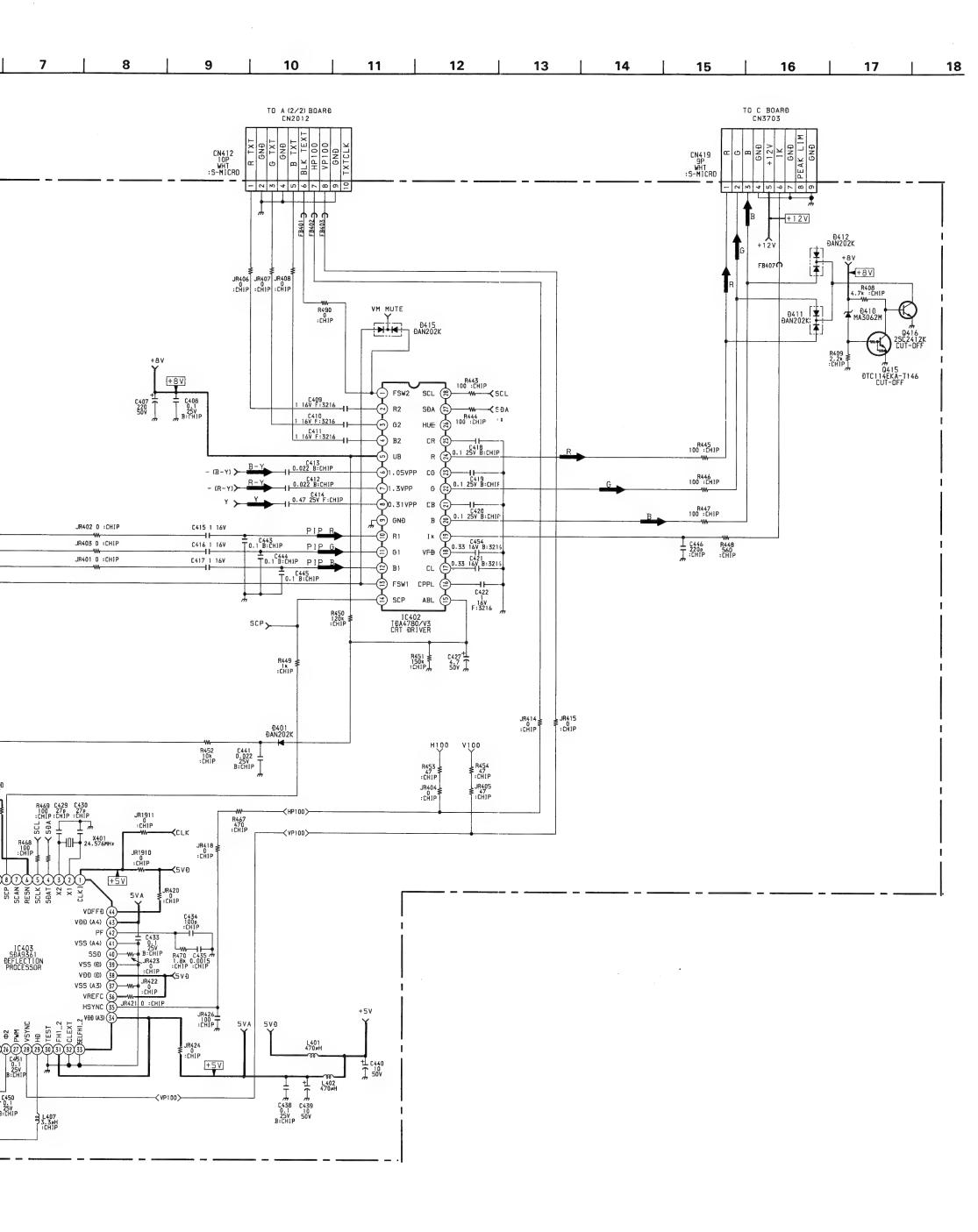
B (1/2) BOARD IC VOLTAGE TABLE

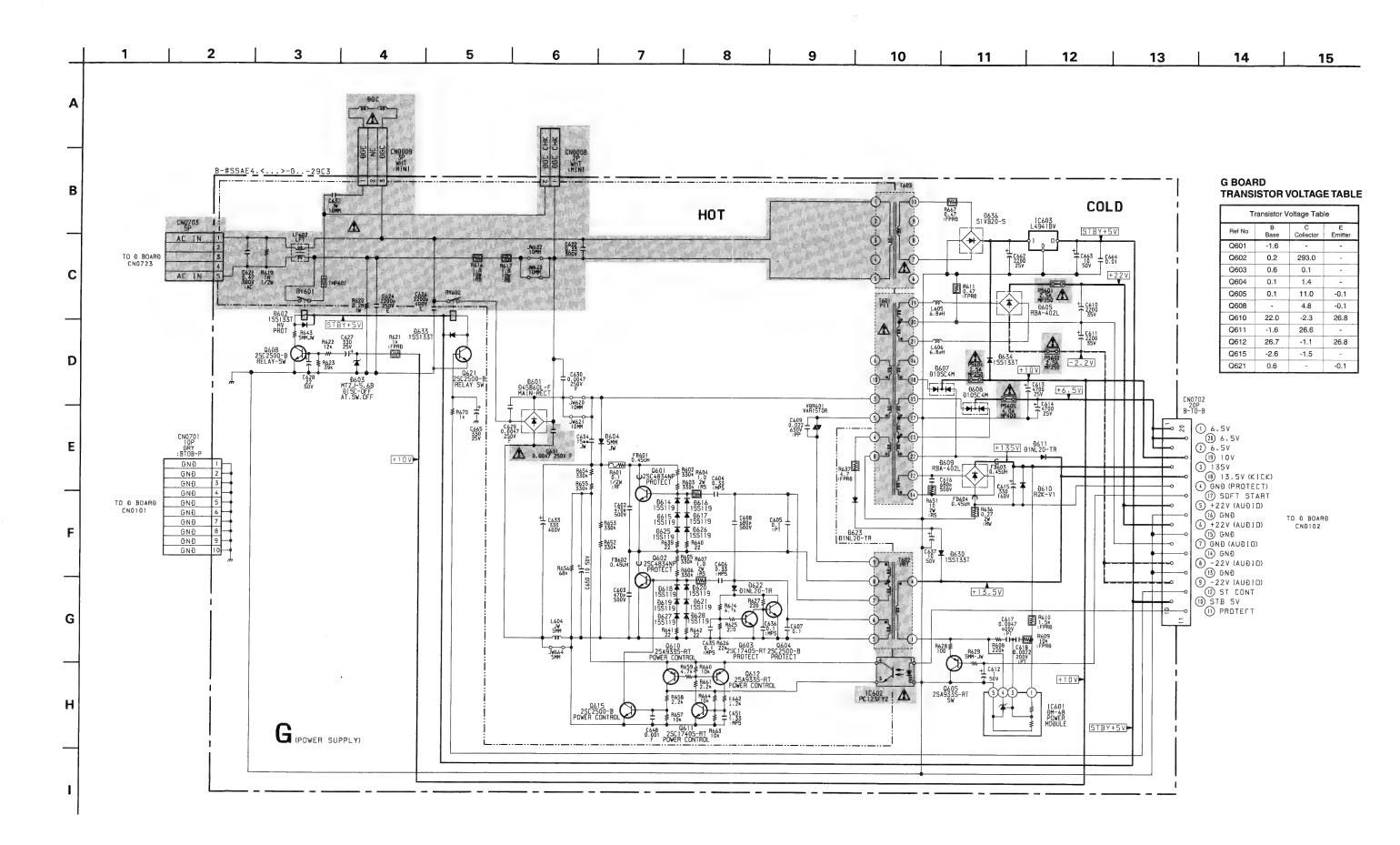
	IC Voltage Table				
Ref No	Pin No	Voltage (V)			
	3-4	2.4			
	6-7	0.7			
	9	4.6			
IC1812	11-13	4.7			
	14	0.3			
	16	5.0			
	3-4	2.4			
	6-7	0.7			
IC1813	9	4.6			
101013	11-13	4.7			
	14	0.3			
	16	5.0			
	1	5.0			
	2	2.3			
	3-4	2.5			
	6-7	0.8			
IC1815	9-11	3.0			
101013	12	4.5			
	13	3.0			
	14	0.4			
	15	0.2			
	16	5.2			
	2	2.5			
	4-5	2.3			
IC1821	12	2.0			
101021	14	2.0			
	15	2.6			
	16	8.0			
	2	2.9			
	4-5	2.6			
IC1822	12	2.3			
1.01022	14	2.1			
	15	2.8			
	16	8.0			

B (2/2) BOARD IC VOLTAGE TABLE

IC Voltage Table				
Ref No	Pin No	Voltage (V)		
	2-4	5.0		
	5	7.8		
	6-7	4.0		
	8	3.7		
	10-12	5.0		
	14	0.7		
	16	4.7		
	17	5.1		
	18	1.8		
IC402	19	7.5		
	20	2.5		
	21	3.3		
	22	2.8		
	23	3.3		
	24	2.9		
	25	3.3		
	27	4.0		
	28	3.8		
	5	3.2		
IC405	9	3.2		
	13-14	3.2		
IC406	16	4.8		



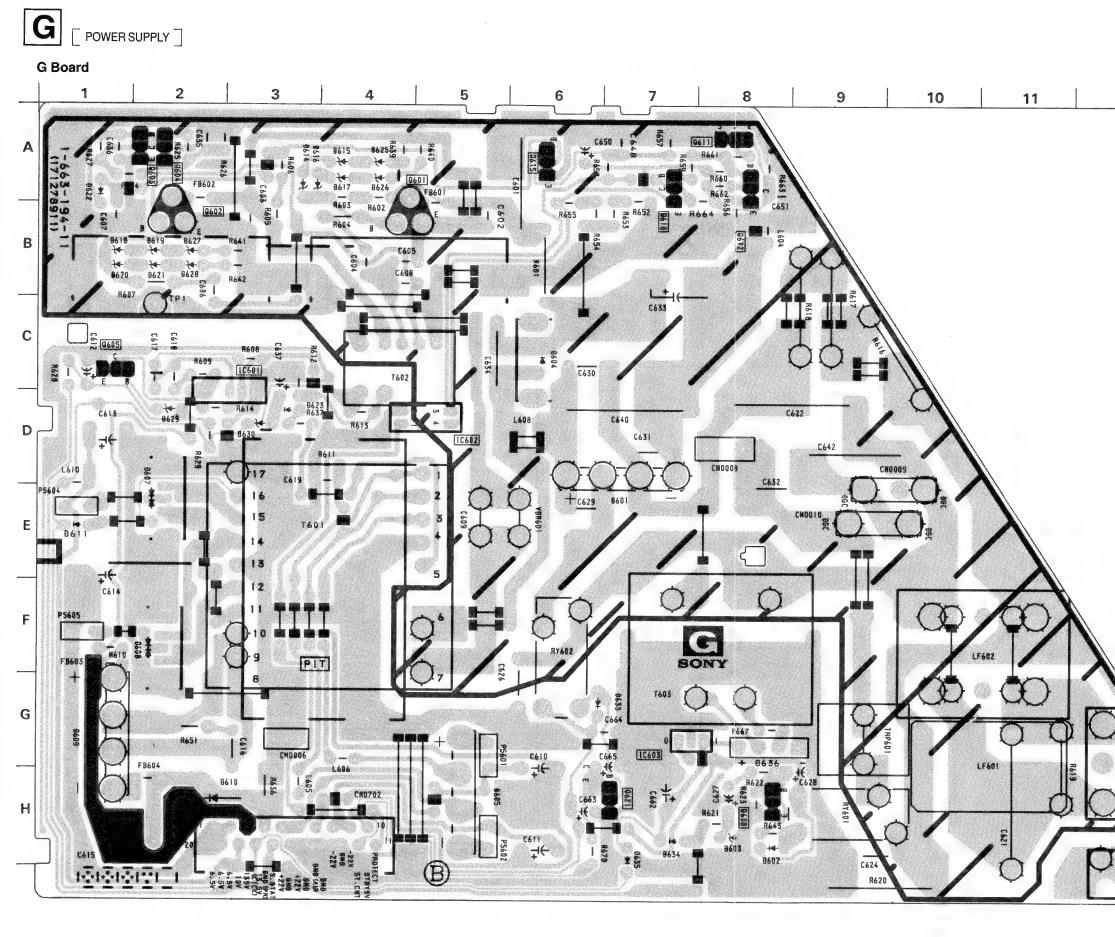


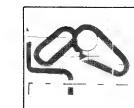




NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.





NOTE:

The circuit indicated as left contains high voltage of over $600\ \text{Vp-p}.$ Care must be paid to prevent an electric shock in inspection or repairing.



IC601

IC602

IC603

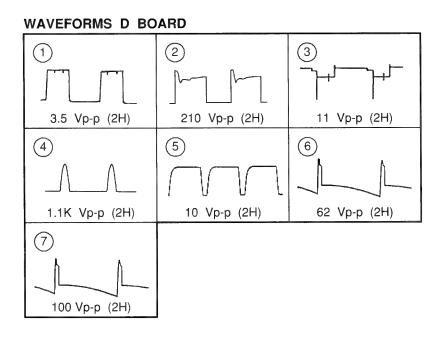
IC

D-5

G-7

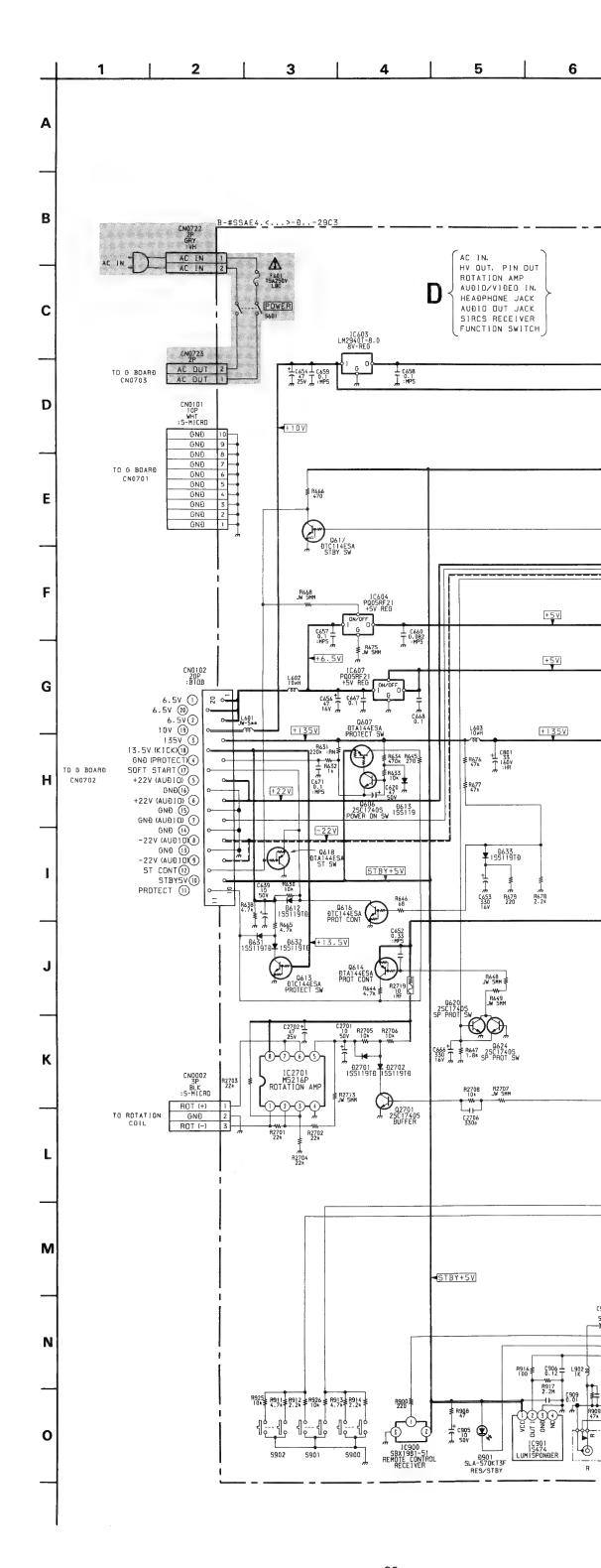
TRANSISTOR Q601 A-5 Q602 B-2 Q603 B-2 Q604 B-2 Q605 C-1 Q608 H-8 Q610 B-7 Q611 A-8 Q612 B-8 Q615 A-6 Q621 H-7 DIODE D601 E-7 D602 H-8 D603 H-8 D603 H-8 D605 H-5 D607 E-2 D608 F-2 D609 G-1 D610 H-3 D611 E-1 D614 A-3 D615 A-4 D616 A-3 D617 A-4 D618 B-1 D619 B-2 D620 B-1 D621 B-2 D620 B-1 D621 B-2 D622 A-1 D623 D-3 D625 A-4 D626 A-4 D626 A-4 D627 B-2 D628 B-2 D630 D-3 D633 G-7 D634 H-7 D636 G-8		10000	G-7
Q602 B-2 Q603 B-2 Q604 B-2 Q605 C-1 Q608 H-8 Q610 B-7 Q611 A-8 Q612 B-8 Q615 A-6 Q621 H-7 DIODE D601 E-7 D602 H-8 D603 H-8 D603 H-8 D605 H-5 D607 E-2 D608 F-2 D609 G-1 D610 H-3 D611 E-1 D614 A-3 D615 A-4 D616 A-3 D615 A-4 D616 A-3 D617 A-4 D618 B-1 D619 B-2 D620 B-1 D621 B-2 D620 B-1 D621 B-2 D622 A-1 D623 D-3 D625 A-4 D626 A-4 D627 B-2 D628 B-2 D628 B-2 D628 B-2 D620 B-1 D621 B-2 D621 B-2 D622 A-1 D623 D-3 D625 A-4 D626 A-4 D627 B-2 D628 B-2 D628 B-2 D630 D-3 D633 G-7 D634 H-7		TRANS	SISTOR
Q603 B-2 Q604 B-2 Q605 C-1 Q608 H-8 Q610 B-7 Q611 A-8 Q612 B-8 Q615 A-6 Q621 H-7 DIODE D601 E-7 D602 H-8 D603 H-8 D603 H-8 D605 H-5 D607 E-2 D608 F-2 D609 G-1 D610 H-3 D611 E-1 D614 A-3 D615 A-4 D616 A-3 D615 A-4 D616 A-3 D617 A-4 D618 B-1 D619 B-2 D620 B-1 D621 B-2 D622 A-1 D623 D-3 D625 A-4 D626 A-4 D627 B-2 D628 B-2 D628 B-2 D628 B-2 D628 B-2 D630 D-3 D633 G-7 D634 H-7		Q601	A-5
Q604 B-2 Q605 C-1 Q608 H-8 Q610 B-7 Q611 A-8 Q612 B-8 Q615 A-6 Q621 H-7 DIODE D601 E-7 D602 H-8 D603 H-8 D603 H-8 D605 H-5 D607 E-2 D608 F-2 D609 G-1 D610 H-3 D611 E-1 D614 A-3 D615 A-4 D616 A-3 D615 A-4 D616 A-3 D617 A-4 D618 B-1 D619 B-2 D620 B-1 D621 B-2 D620 B-1 D621 B-2 D622 A-1 D623 D-3 D625 A-4 D626 A-4 D627 B-2 D628 B-2 D628 B-2 D628 B-2 D630 D-3 D633 G-7 D634 H-7		Q602	B-2
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C633 C	D609	G-1	
	D610	H-3	
Reduce The	D611	E-1	
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T602	D615	A-4	
	D616	A-3	
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CH0809	D620	B-1	
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D BOARD TRANSISTOR VOLTAGE TABLE

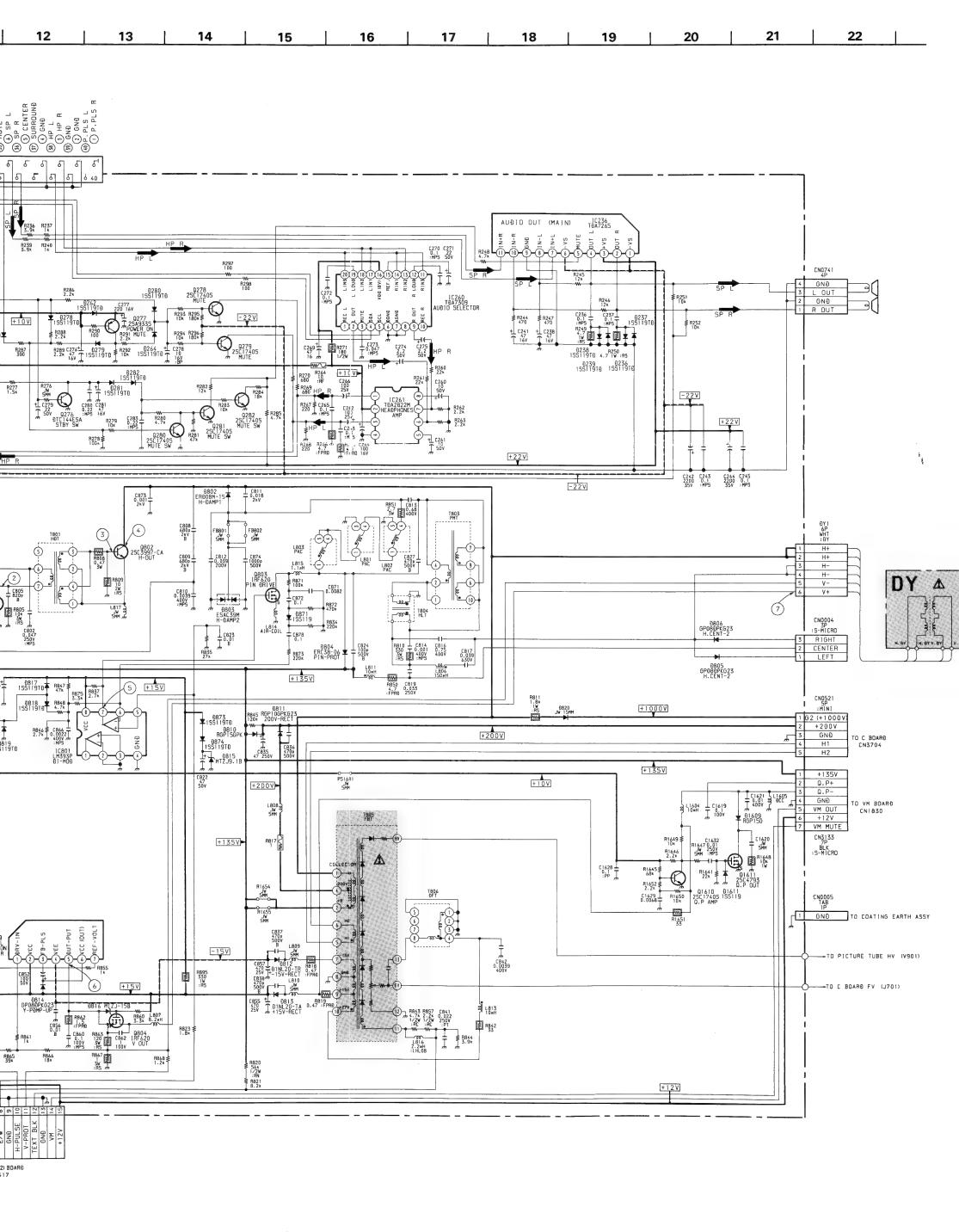
Transistor Voltage Table										
Ref No	B Base	C Collector	E Emitter							
Q276	0.7	4.0								
Q277	10.0	-	9.7							
Q278	-1.3	-	-							
Q279	-1.3	-	-1.3							
Q280	0.4	0.7	-							
Q281	0.7	-	-							
Q282	0.7	-	-							
Q801	-1.0	101.0	-							
Q802	-	136.0	-							
Q803	9.0	15.0	-							
Q804	11.3	0.1	-1.3							
Q606	0.5	4.8	0.3							
Q607	4.8	1.6	4.8							
Q613	13.5	-	-							
Q614	10.0	9.0	10.0							
Q616	0.7	-	-							
Q617	0.7	3.5	-							
Q618	3.5	-	-							
Q620	-	10.0	-							
Q624	-	10.0	-							
Q2701	-	2.3	-							
Q1610	-0.5	2.2	-							
Q1611	0.2	43.4	-							



5 6 8 9 10 11 12 13 14 TO A (1/2) BOARD CN101 FOR SERVICE CNOOO1 SP RED-L :S-MICRO (B) (a) (B) AC IN. HV OUT, PIN OUT ROTATION AMP AUDIO/VIDEO IN. HEADPHONE JACK AUDIO OUT JACK SIRCS RECEIVER FUNCTION SWITCH IC603 LM2940T-8.0 8V-REG +8V +33V 0278 2501740S MUTE R286 2.2k +10V R293 R295 10k 180k≱ +10V 155119TI 19276 19511918-2518**▼** R288 R294 R296 2.2k 2.2k 1 10k W W R289 C276± D279 R292 D264 ± C278 1 10k 155119TĐ 10k 155119TĐ 10k 16V 16V 16V 16V 0 V R2B7 390 +10V STBY +5V 1 ±1 9281 1 1SS119TĐ 1 1SS11 R277 0617 DIC114ESA STBY SW R278 ≢ -22V C873 0.001 2×V +5V # C101 F50V **(4)** FBB01 JW 5MM 3 +6.5V +5V R808 0.47 3W C809 680p 2kV B C812 0.039 200V C874 1000p 500V C666 LB1 R634 R645 470k 270 R676 47k R633 10k C620 50V ₹**1**677 25017405 155119 DWER ON SW 5 +15V VIĐEO ± 155119TĐ 1873 15511910 1810 RGP15GPk C835 47 250V Đ819 1551191Đ RGP15GPK 1874 155119T0 + 0815 MTZJ9.1B R678 2.2k R679 220 DTC144ESA PROT CON1 + 1 0 V +200V R644 R2719 R648 JW 5MM ≸ R649 JW 5MM +135V C2701 10 R2705 R2706 50V 10k 10k C666+ R647 2SC 1740S 16V R647 2SC 1740S 16V PROT SW 701 16P DN AMP ⁷⁷ 02701 ▼ 02702 155119T0 | 155119T0 R2708 R2707 10k JW SMM R2713 JW 5HM 02701 2SC1740S BUFFER C2706 330p -15V ₹ R923 R922 ≸ R895 330 1W :RS 1 £669 0.1 :MP5 R823 3 +12V R820 56k 1/2W : RN R821 8.2k STBY+5V ΗP CN0743 15P WHT :S-MICRO 0.022 R901 8 R902 TO II (2/2) BDARĐ CN417 2 = R926 = R913 = R914 = 10k = 4.7k = 2.2k HEAÐPHONES J901 FRONT AV L VIĐEO

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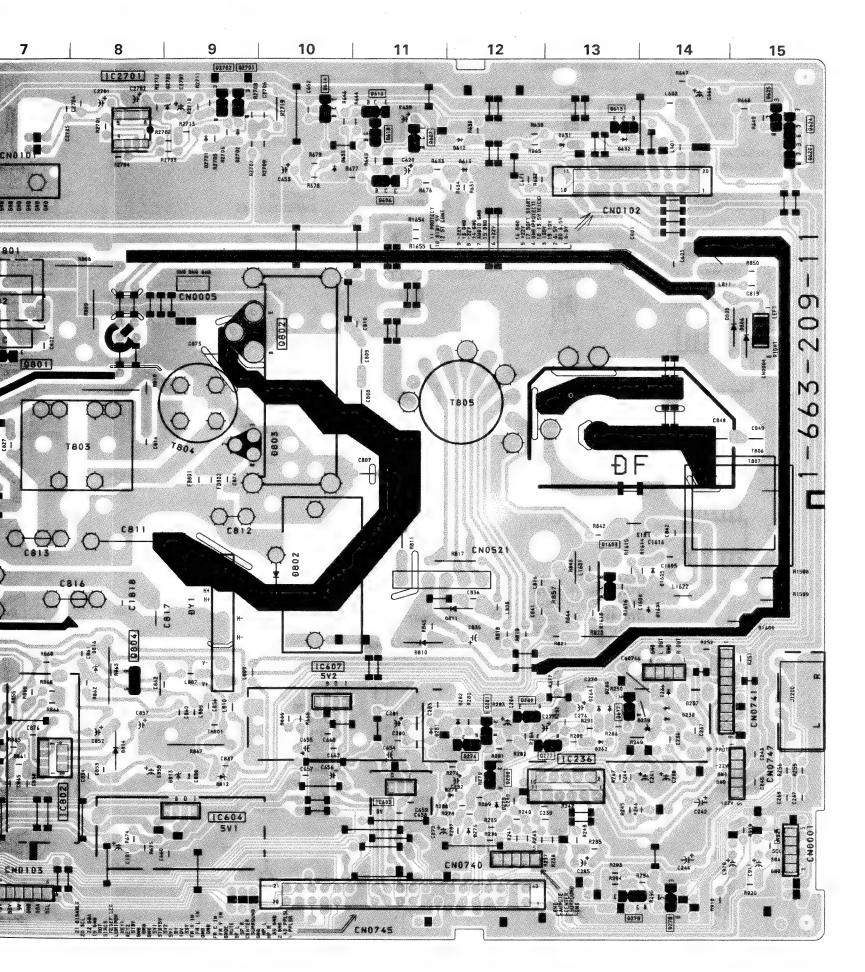


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TC260

D BOA

IC236 IC260 IC261 IC603 IC604 IC606 IC607 IC801 IC802 IC900 IC901 IC2701 TRAN Q276 Q277 Q278 Q279 Q280 Q281 Q282 Q606 Q607 Q613 Q614 Q616 Q617 Q618 Q620 Q624 Q801 Q802 Q803 Q804 Q1610 Q1611 Q2701





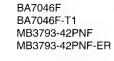
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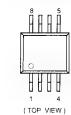
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D BOARD

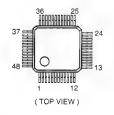
IC236		-	5105	
IC260	IC			
IC261			D101	-
IC603				
IC604	IC261	I-4	D237	G-14
IC606	IC603	H-11	D238	G-14
IC607 G-10 D264 G-13 IC801 C-4 D276 I-12 IC802 H-8 D278 H-12 IC900 D-1 D279 H-12 IC901 C-1 D280 G-13 IC2701 A-8 D281 H-12 TRANSISTOR D282 G-12 Q276 H-13 D613 B-12 Q277 H-13 D613 B-12 Q278 I-14 D631 A-13 Q279 I-14 D632 A-14 Q280 H-12 D633 B-11 Q281 G-12 D802 F-10 Q282 G-13 D803 E-10 Q282 G-13 D803 E-10 Q606 B-11 D804 B-5 Q607 A-11 D805 C-15 Q613 A-13 D806 C-15 Q614 A-10 D810 G-11 Q616 A-11 D811 F-12 Q617 G-13 D812 H-9 Q618 A-11 D813 H-9 Q620 A-15 D814 H-8 Q624 A-15 D815 D-3 Q801 D-7 D816 G-8 Q802 C-10 D817 D-4 Q803 D-5 D818 E-4 Q804 G-8 D819 D-3 Q1610 F-5 D873 D-4	IC604	H-9	D239	G-14
IC801 C-4 D276 I-12 IC802 H-8 D278 H-12 IC900 D-1 D279 H-12 IC901 C-1 D280 G-13 IC2701 A-8 D281 H-12 TRANSISTOR D282 G-12 Q276 H12 D612 A-12 Q277 H-13 D613 B-12 Q278 I-14 D631 A-13 Q279 I-14 D632 A-14 Q280 H-12 D633 B-11 Q281 G-12 D802 F-10 Q282 G-13 D803 E-10 Q282 G-13 D804 B-5 Q606 B-11 D804 B-5 Q607 A-11 D805 C-15 Q613 A-13 D806 C-15 Q614 A-10 D810 G-11 Q616 A-11 D811 F-12 Q617 G-13 D812 H-9 Q618 A-11 D813 H-9 Q620 A-15 D814 H-8 Q624 A-15 D815 D-3 Q801 D-7 D816 G-8 Q802 C-10 D817 D-4 Q803 D-5 D818 E-4 Q804 G-8 D819 D-3 Q1610 F-5 D873 D-4	IC606	H-7	D262	H-13
IC802	IC607	G-10	D264	G-13
IC900 D-1 D279 H-12 IC901 C-1 D280 G-13 IC2701 A-8 D281 H-12 TRANSISTOR D282 G-12 Q276 H-13 D613 B-12 Q277 H-13 D613 B-12 Q279 I-14 D632 A-14 Q280 H-12 D633 B-11 Q281 G-12 D802 F-10 Q282 G-13 D803 E-10 Q282 G-13 D803 E-10 Q606 B-11 D804 B-5 Q607 A-11 D805 C-15 Q613 A-13 D806 C-15 Q614 A-10 D810 G-11 Q616 A-11 D811 F-12 Q617 G-13 D812 H-9 Q618 A-11 D813 H-9 Q620 A-15 D814 H-8 Q624 A-15 D815 D-3 Q801 D-7 D816 G-8 Q802 C-10 D817 D-4 Q803 D-5 D818 E-4 Q804 G-8 D819 D-3 Q1610 F-5 D873 D-4	IC801	C-4	D276	I-12
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IC2701 A-8 D281 H-12 TRANSISTOR D282 G-12 Q276 H12 D612 A-12 Q277 H-13 D613 B-12 Q278 I-14 D631 A-13 Q279 I-14 D632 A-14 Q280 H-12 D633 B-11 Q281 G-12 D802 F-10 Q282 G-13 D803 E-10 Q606 B-11 D804 B-5 Q607 A-11 D805 C-15 Q613 A-13 D806 C-15 Q614 A-10 D810 G-11 Q616 A-11 D811 F-12 Q617 G-13 D812 H-9 Q618 A-11 D813 H-9 Q620 A-15 D814 H-8 Q624 A-15 D815 D-3 Q801 D-7 D816 G-8 Q802	IC900	D-1	D279	H-12
TRANSISTOR D282 G-12 Q276 H12 D612 A-12 Q277 H-13 D613 B-12 Q278 I-14 D631 A-13 Q279 I-14 D632 A-14 Q280 H-12 D633 B-11 Q281 G-12 D802 F-10 Q282 G-13 D803 E-10 Q606 B-11 D804 B-5 Q607 A-11 D805 C-15 Q613 A-13 D806 C-15 Q613 A-13 D806 C-15 Q614 A-10 D810 G-11 Q614 A-10 D810 G-11 Q616 A-11 D811 F-12 Q617 G-13 D812 H-9 Q618 A-11 D813 H-9 Q620 A-15 D814 H-8 Q624 A-15 D815 D-3 Q801	IC901	C-1	D280	G-13
Q276 H12 D612 A-12 Q277 H-13 D613 B-12 Q278 I-14 D631 A-13 Q279 I-14 D632 A-14 Q280 H-12 D633 B-11 Q281 G-12 D802 F-10 Q282 G-13 D803 E-10 Q606 B-11 D804 B-5 Q607 A-11 D805 C-15 Q613 A-13 D806 C-15 Q614 A-10 D810 G-11 Q616 A-11 D811 F-12 Q617 G-13 D812 H-9 Q618 A-11 D813 H-9 Q620 A-15 D814 H-8 Q624 A-15 D815 D-3 Q801 D-7 D816 G-8 Q802 C-10 D817 D-4 Q803 D-5 D818 E-4 Q	IC2701	A-8	D281	H-12
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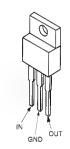




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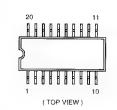
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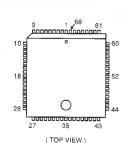
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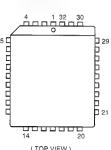
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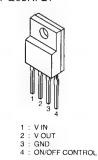


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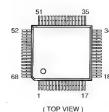
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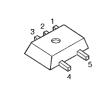
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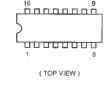
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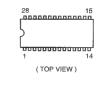
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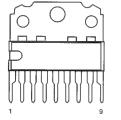
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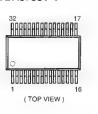
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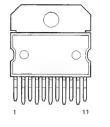


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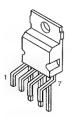
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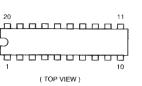


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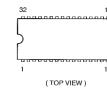
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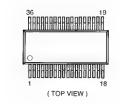
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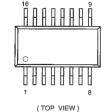
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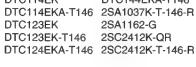
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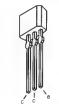


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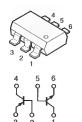


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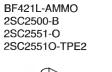


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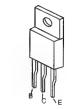


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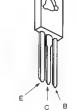
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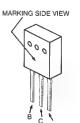


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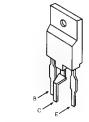
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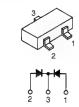
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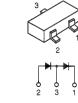
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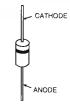
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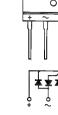
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ERC38-06



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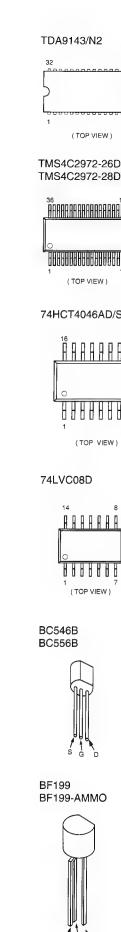


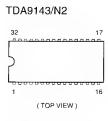




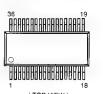




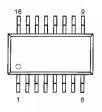




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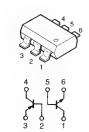
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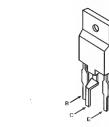
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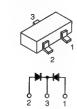
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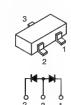
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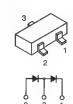
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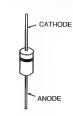
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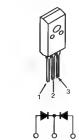
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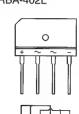
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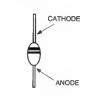


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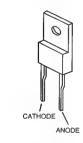




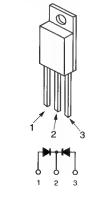
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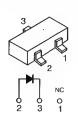
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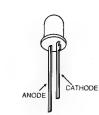
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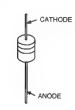


SLA-570KT3F

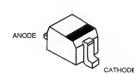


MA3051L-TX

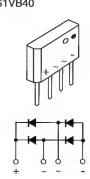




RD12SB2 UDZ-TE-17-12B

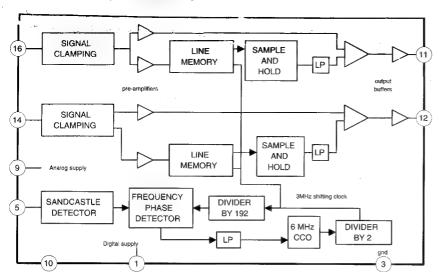


S1VB20-S S1VB40

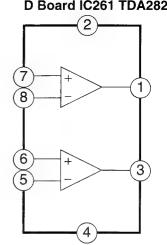


5-5. IC BLOCK DIAGRAMS

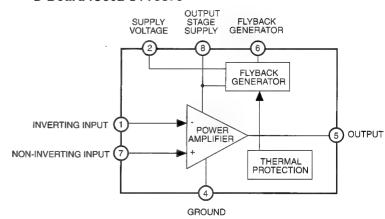
A Board IC303, TDA4665T-T



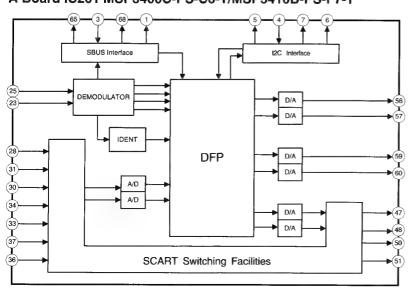
D Board IC261 TDA2822M



D Board IC802 STV9379



A Board IC201 MSP3400C-PS-C6-T/MSP3410B-PS-F7-T



SECTION 6 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they
 are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

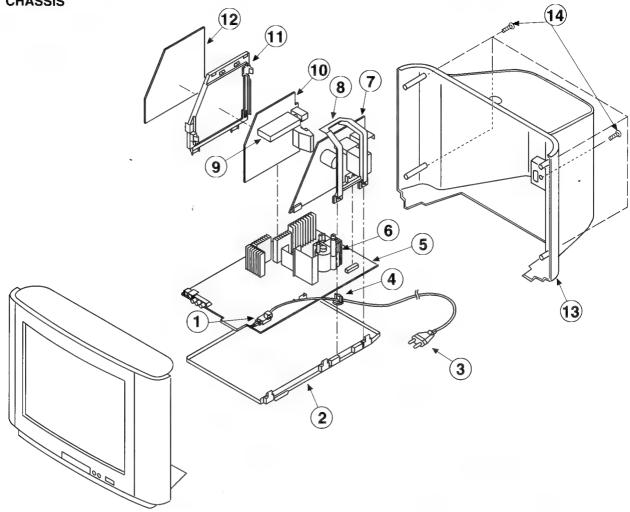
The components identified by shading and marked $\frac{1}{2}$ are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite.

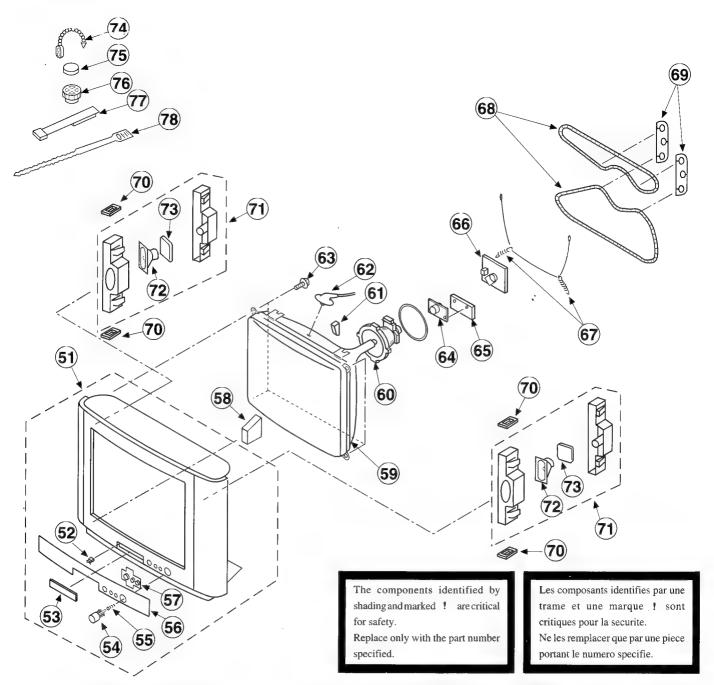
Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1 50 ± 135 57	1-571-433-21	SWITCH, PUSH (AC PO	WRE LESSELLE LINE	11	*4-203-612-01	BRACKET, A-B	
2	*4-203-415-01	BRACKET, MAIN		12	*A-1620-080-A	B BOARD, COMPLETE	
3	1-751-680-11	CORD, BOWER WITH N	DISE FILER)	13	4-202-993-11	COVER, REAR	
		2.54/250V		14	4-039-358-01	SCREW (4X16), (+) BV	TAPPING
4	*4-202-531-01	AC CORD LOCK (SC)					
5	*A-1640-246-A	D BOARD, COMPLETE					
6	A 1-453-222-11	TRANSHOPMER ASSY, F	LTBACK (NX-440C3/D204)				
7	*A-1636-021-A	G BOARD, COMPLETE					
8	*4-203-613-01	SUPPORTER, G					
9	1-693-338-11	TUNER (TUVIF) (AEP)					
		(KV-29C3A/29C3D/2	9C3E/29C3K/29C3R)				
	1-693-340-11	TUNER (TUVIF) (FR)	(KV-29C3B)				
10	*A-1632-572-A	A BOARD, COMPLETE (•				
	*A-1632-570-A	A BOARD, COMPLETE (KV-29C3B)				
	*A-1632-498-A	A BOARD, COMPLETE (KV-29C3D)				
	*A-1632-571-A	A BOARD, COMPLETE (•				
	*A-1632-574-A	A BOARD, COMPLETE (•				
	*A-1632-573-A	A BOARD, COMPLETE (KV-29C3R)				

6-2. PICTURE TUBE



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-293-1	BEZNET ASSY (M)	52-57	63	4-203-043-01	SCREW (M), PT	
		(KV-29C3)	/29C3D/29C3K/29C3R)	64	8-453-005-21	NECE ASSY PICTORS TO	JBE (NA297-M21111
	X-4200-295-1	BEZNET ASSY (M-N)	52-57	65	*A-1644-077-A	VM BOARD, COMPLETE	ある 本 生 か きょう も ま ま を み a a a a a a a a a a a a a a a a a a
			(KV-29C3B/29C3E)	66	*A-1638-097-A	C BOARD, COMPLETE	
52	4-392-036-01	CATCHER PUSH		67	4-369-318-51	SPRING, TENSION	
53	4-203-013-31	DOOR (PAINTED)		68	1-406-807-11		李董孝養等等自由自治自言等目前自
54	4-202-992-01	BUTTON, POWER		69	4-202-749-01	HOLDER, D.G.C. (29"	/32")
55	4-202-964-01	SPRING		70	*4-202-988-01	CUSHION, BOX	•
56	X-4200-294-1	PANEL ASSY (M)		71	*A-1678-087-A	BOX ASSY	72-73
		(KV-29C3A	/29C3D/29C3K/29C3R)	72	1-504-146-11	SPEAKER (5X11CM)	
	X-4200-296-1	PANEL ASSY (M-N)	(KV-29C3B/29C3E)	73	4-200-999-01	STOPPER	
57	4-203-524-01	WINDOW ORNAMENTAL		74	4-308-870-00	CLIP, LEAD WIRE	
58	4-203-098-01	SUPPORTER, CRT		75	1-452-032-00	MAGNET, DISK; 10MM	7
59	8-733-856-05	PICTURE TUBE (SD-	269) (n681CT60k)	76	1-452-094-00	MAGNET, ROTATABLE D	ISK; 15MM Ø
60	8-451-466-11	DEFLECTION YOKE	129GKC2B)	77	X-4387-214-1	PERMALLOY ASSY, CORI	
61	3-704-495-01	SPACER, DY		78	3-701-007-00	BAND, BINDING	
62	1-251-317-81	CAP ASSY, HIGH WO	Chact				

SECTION 7

ELECTRICAL PARTS LIST

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF: mF, PF: mmF

 $MMH:mH, \mu H:mH$

• Items marked "* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F: nonflammable

The components identified by shading and marked $\hat{\mathbf{r}}_{i}$ are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque M. sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
		B BOARD, COMPLETE			C1806 C1807 C1808 C1809	1-126-963-11	CERAMIC CHIP 0.33MF ELECT 4.7MF CERAMIC CHIP 220PF CERAMIC CHIP 220PF	10% 20% 5% 5%	16V 50V 50V 50V
	CAL	ACTION							
C407 C408 C409 C410 C411		CERAMIC CHIP 0.1MF	20% 10%	50V 25V 16V 16V 16V	C1810 C1811 C1812 C1813 C1814	1-163-989-11 1-163-989-11	CERAMIC CHIP 1MF CERAMIC CHIP 0.033MF CERAMIC CHIP 0.033MF CERAMIC CHIP 0.22MF CERAMIC CHIP 220PF	10% 10% 10% 5%	16V 25V 25V 16V 50V
C412 C413 C414 C415 C416	1-163-037-11 1-164-005-11	CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	10% 10%	50V 50V 25V 16V 16V	C1815 C1816 C1817 C1818 C1819	1-163-125-00 1-126-963-11 1-164-004-11 1-164-004-11 1-163-097-00	ELECT 4.7MF CERAMIC CHIP 0.1MF	5% 20% 10% 10% 5%	50V 50V 25V 25V 50V
C417 C418 C419 C420 C421	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10% 10%	16V 25V 25V 25V 16V	C1820 C1821 C1822 C1823 C1824	1-163-097-00 1-164-004-11 1-164-004-11 1-164-004-11 1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5% 10% 10% 10% 10%	50V 25V 25V 25V 25V
C422 C427 C428 C429 C430	1-162-638-11 1-126-963-11 1-164-004-11 1-163-103-00 1-163-103-00		20% 10% 5% 5%	16V 50V 25V 50V 50V	C1825 C1826 C1827 C1828 C1829	1-126-964-11 1-164-004-11 1-164-004-11 1-163-117-00 1-163-097-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20% 10% 10% 5% 5%	50V 25V 25V 50V 50V
C431 C432 C433 C434 C435	1-164-004-11		10% 10% 10% 5% 5%	25V 25V 25V 50V 50V	C1830 C1831 C1850 C1851 C1852	1-164-004-11 1-163-125-00 1-163-111-00 1-163-989-11 1-164-005-11	CERAMIC CHIP 220PF CERAMIC CHIP 56PF CERAMIC CHIP 0.033MF	10% 5% 5% 10%	25V 50V 50V 25V 16V
C438 C439 C440 C441 C446	1-164-004-11 1-126-964-11 1-126-964-11 1-163-037-11 1-163-125-00	ELECT 10MF CERAMIC CHIP 0.022MF	10% 20% 20% 10% 5%	25V 50V 50V 50V 50V	C1856 C1857 C1858 C1859 C1860	1-163-105-00 1-163-101-00 1-163-989-11 1-164-005-11 1-126-961-11	CERAMIC CHIP 22PF CERAMIC CHIP 0.033MF CERAMIC CHIP 0.47MF	5% 5% 10% 20%	50V 50V 25V 16V 50V
C450 C451 C452 C453 C454	1-164-004-11 1-163-103-00 1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 27PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.33MF	10% 10% 5% 10% 10%	25V 25V 50V 25V 16V	C1861 C1862 C1864 C1866 C1867	1-163-097-00 1-163-097-00 1-163-002-11 1-126-964-11 1-164-004-11	CERAMIC CHIP 15PF CERAMIC CHIP 270PF	5% 5% 10% 20% 10%	50V 50V 50V 50V 25V
C455 C1801 C1802 C1803 C1804	1-126-964-11 1-126-963-11 1-163-141-00 1-126-964-11 1-164-004-11	ELECT 4.7MF CERAMIC CHIP 0.001MF ELECT 10MF	20% 20% 5% 20% 10%	50V 50V 50V 50V 25V	C1868 C1869 C1870 C1871 C1872	1-164-004-11 1-164-004-11 1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10% 10% 10%	25V 25V 25V 25V 25V 25V
C1805	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	C1873	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V



C1874	
C1875	
C1879 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1801 1-239-882-11 FILTER, LOW PASS C1880 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1803 1-415-940-11 DELAY LINE F11807 1-236-071-11 ENCAPSULATED COMPONENT C1881 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1808 1-236-071-11 ENCAPSULATED COMPONENT C1882 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1809 1-236-071-11 ENCAPSULATED COMPONENT C1883 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1886 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1887 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1887 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V	
C1881 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1808 1-236-071-11 ENCAPSULATED COMPONENT C1882 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1809 1-236-071-11 ENCAPSULATED COMPONENT C1883 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1886 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1887 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1887 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V	
C1881 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1807 1-236-071-11 ENCAPSULATED COMPONENT C1882 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1808 1-236-071-11 ENCAPSULATED COMPONENT C1883 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1886 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1887 1-164-004-11 CERAMIC CHIP 0.1MF 10% 10% 10% 10% 10% 10% 10% 10% 10% 10%	
C1882 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1809 1-236-071-11 ENCAPSULATED COMPONENT C1883 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1886 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V < IC > C1887 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V < IC >	
C1882 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V FL1809 1-236-071-11 ENCAPSULATED COMPONENT C1883 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1886 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V < IC > C1887 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V	
C1883 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V C1886 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V < IC > C1887 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V < IC >	
C1886 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V < IC > C1887 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V	
IC402 8-759-275-36 IC TDA4780/V3	
C1889 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V IC403 8-759-421-42 IC SDA9361	
C1890 1-126-964-11 ELECT 10MF 20% 50V IC1801 8-759-257-59 IC TDA8755T-T	
C1891 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V IC1802 8-759-439-63 IC SAA4945H/V1	
C1892 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V IC1803 8-759-439-27 IC TMS4C2972-28DTR	
C1893 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V IC1809 8-759-438-63 IC SDA9280A41	
C1894 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V IC1812 8-759-444-24 IC 74HCT4045AD/S470 C1897 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V IC1814 8-759-438-64 IC SAA4952WP/V1	
C1898 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V IC1815 8-759-444-24 IC 74HCT4046AD/S470	
C1899 1-163-097-00 CERAMIC CHIP 15PF 5% 50V	
C1903 1-163-251-11 CERAMIC CHIP 100PF 5% 50V IC1816 8-759-444-25 IC P83C654EBA/560	
IC1823 8-759-991-41 IC LM78L05ACZ	
C1904 1-163-145-00 CERAMIC CHIP 0.0015MF 5% 50V IC1824 8-759-991-41 IC LM78L05ACZ	
C1910 1-126-964-11 ELECT 10MF 20% 50V IC1825 8-759-234-77 IC TC4S66F	
C1912 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V	
C1947 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V < COIL >	
C1948 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V	
L401 1-408-429-00 INDUCTOR 470UH	
JR426 1-163-117-00 CERAMIC CHIP 100PF 5% 50V L402 1-408-429-00 INDUCTOR 470UH	
L407 1-410-999-11 INDUCTOR CHIP 3.3UH	
<pre>< CONNECTOR ></pre>	
L1802 1-410-435-21 INDUCTOR 220UH	
CN412 *1-564-513-11 PLUG, CONNECTOR 10P	
CN413 *1-564-511-11 PLUG, CONNECTOR 8P L1803 1-408-403-00 INDUCTOR 3.3UH	
CN417 *1-564-596-11 PLUG, CONNECTOR 15P L1804 1-408-409-00 INDUCTOR 10UH CN419 *1-564-512-11 PLUG, CONNECTOR 9P L1805 1-410-999-11 INDUCTOR CHIP 3.3UH	
CN419 *1-564-512-11 PLUG, CONNECTOR 9P L1805 1-410-999-11 INDUCTOR CHIP 3.3UH CN1810 *1-564-512-11 PLUG, CONNECTOR 9P L1808 1-408-403-00 INDUCTOR 3.3UH	
CN1810 *1-564-512-11 PLUG, CONNECTOR 9P L1808 1-408-403-00 INDUCTOR 3.3UH L1811 1-408-403-00 INDUCTOR 3.3UH	
CN1815 *1-564-512-11 PLUG, CONNECTOR 9P	
L1813 1-408-403-00 INDUCTOR 3.3UH	
CN412	
D401 8-719-914-43 DIODE DAN202K-T-146	
D401 8-719-914-43 DIODE DAN202K-T-146 Q415 8-729-900-53 TRANSISTOR DTC114EKA	
D403 8-719-028-00 DIODE MA3033L-TX Q416 8-729-920-74 TRANSISTOR 25C2412K-QR	
D410 8-719-401-63 DIODE MA3062M-TX Q1801 8-729-216-22 TRANSISTOR 2SA1162-G	
D411 8-719-914-43 DIODE DAN202K-T-146 Q1802 8-729-901-01 TRANSISTOR DTC144EK	
Q1804 8-729-901-01 TRANSISTOR DTC144EK	
D412 8-719-914-43 DIODE DAN202K-T-146	
D415 8-719-914-43 DIODE DAN202K-T-146 Q1805 8-729-216-22 TRANSISTOR 2SA1162-G	
Q1808 8-729-901-01 TRANSISTOR DTC144EK	
<pre>< FERRITE BEAD > Q1809 8-729-901-01 TRANSISTOR DTC144EK</pre>	
Q1810 8-729-901-01 TRANSISTOR DTC144EK	
FB401 1-414-234-11 INDUCTOR, FERRITE BEAD Q1812 8-729-920-74 TRANSISTOR 2SC2412K-QR	
FB402 1-414-234-11 INDUCTOR, FERRITE BEAD	
FB403 1-414-234-11 INDUCTOR, FERRITE BEAD < RESISTOR >	
FB404 1-414-234-11 INDUCTOR, FERRITE BEAD FB405 1-414-234-11 INDUCTOR, FERRITE BEAD C1916 1-216-043-91 METAL GLAZE 560 5% 1/10W	
FB405 1-414-234-11 INDUCTOR, FERRITE BEAD C1916 1-216-043-91 METAL GLAZE 560 5% 1/10W	
FB406 1-414-234-11 INDUCTOR, FERRITE BEAD JR401 1-216-295-91 METAL GLAZE 0 5% 1/10W	
FB407 1-414-234-11 INDUCTOR, FERRITE BEAD JR402 1-216-295-91 METAL GLAZE 0 5% 1/10W	
FB1801 1-414-234-11 INDUCTOR, FERRITE BEAD JR403 1-216-295-91 METAL GLAZE 0 5% 1/10W	
FB1802 1-414-234-11 INDUCTOR, FERRITE BEAD JR404 1-216-295-91 METAL GLAZE 0 5% 1/10W	
LDIAGE T.=16-V-34-11 THDOCTON LEGULIE DUVI DVACA T.VIO.233-31 HERUM CHURE A 20. 71.74.	
T 111 201 II IMPOULDMY I DIRECTED DAME	
FB1803 1-414-234-11 INDUCTOR, FERRITE BEAD JR405 1-216-295-91 METAL GLAZE 0 5% 1/10W	
FB1803 1-414-234-11 INDUCTOR, FERRITE BEAD JR405 1-216-295-91 METAL GLAZE 0 5% 1/10W	
FB1803 1-414-234-11 INDUCTOR, FERRITE BEAD JR405 1-216-295-91 METAL GLAZE 0 5% 1/10W FB1804 1-414-234-11 INDUCTOR, FERRITE BEAD JR406 1-216-295-91 METAL GLAZE 0 5% 1/10W FB1805 1-414-234-11 INDUCTOR, FERRITE BEAD JR407 1-216-295-91 METAL GLAZE 0 5% 1/10W	
FB1803 1-414-234-11 INDUCTOR, FERRITE BEAD JR405 1-216-295-91 METAL GLAZE 0 5% 1/10W FB1804 1-414-234-11 INDUCTOR, FERRITE BEAD JR406 1-216-295-91 METAL GLAZE 0 5% 1/10W FB1805 1-414-234-11 INDUCTOR, FERRITE BEAD JR407 1-216-295-91 METAL GLAZE 0 5% 1/10W FB1806 1-414-234-11 INDUCTOR, FERRITE BEAD JR408 1-216-295-91 METAL GLAZE 0 5% 1/10W	
FB1803 1-414-234-11 INDUCTOR, FERRITE BEAD JR405 1-216-295-91 METAL GLAZE 0 5% 1/10W FB1804 1-414-234-11 INDUCTOR, FERRITE BEAD JR406 1-216-295-91 METAL GLAZE 0 5% 1/10W FB1805 1-414-234-11 INDUCTOR, FERRITE BEAD JR407 1-216-295-91 METAL GLAZE 0 5% 1/10W	



REF.NO.	PART NO.	DESCRIPTION	N		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		RE	MARK
	Part of the last											
JR415	1-216-295-91		-		/10W	JR1897	1-216-295-91		0	5%	1/10W	
JR417	1-216-295-91		-		/10W /10W	JR1898 JR1899	1-216-295-91		0	5% 5%	1/10W 1/10W	
JR418 JR420	1-216-295-91 1-216-295-91		-		/10W	JR1901	1-216-295-91		0	5%	1/10W	
JR421	1-216-295-91		-		/10W	JR1904	1-216-295-91		Õ	5%	1/10W	
OMILE.			•									
JR422	1-216-295-91	METAL GLAZE	0 5	% 1/	/10W	JR1905	1-216-295-91		0	5%	1/10W	
JR423	1-216-295-91		-		/10W	JR1910	1-216-295-91		0	5%	1/10W	
JR424	1-216-295-91				/10W	JR1911	1-216-295-91	METAL GLAZE	0	5%	1/10W	
JR1814 JR1815	1-216-295-91	METAL GLAZE			/10W /10W	R408	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
UKIOIS	1-210-295-91	METAL GLAZE	0 5	10 1/	104	R409	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
JR1816	1-216-295-91	METAL GLAZE	0 5	i% 1/	/10W	R439	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
JR1817	1-216-295-91	METAL GLAZE	0 5	3% 1/	/10W	R443	1-216-025-91	METAL GLAZE	100	5%	1/10W	
	1-216-295-91	METAL GLAZE			/10W	R444	1-216-025-91	METAL GLAZE	100	5%	1/10W	
JR1819	1-216-295-91	METAL GLAZE			/10W	2445	1 216 025 01	100031 01350	100	FO.	1 /1 01/1	
JR1820	1-216-295-91	METAL GLAZE	0 5	5% 1/	/10W	R445 R446	1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	
JR1821	1-216-295-91	METAL GLAZE	0 5	5% 1/	/10W	R447	1-216-025-91	METAL GLAZE	100	5%	1/10W	
JR1822	1-216-295-91	METAL GLAZE			/10W	R448	1-216-043-91	METAL GLAZE	560	5%	1/10W	
JR1823	1-216-295-91	METAL GLAZE			10W	R449	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
JR1824	1-216-295-91	METAL GLAZE			/10W							
JR1825	1-216-295-91	METAL GLAZE	0 5	3% 1/	10W	R450	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
TD1006	1 046 00F 04		٥ .	0. 1/	/1077	R451	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
JR1826 JR1827	1-216-295-91	METAL GLAZE METAL GLAZE			/10W /10W	R452 R453	1-216-073-00 1-216-017-91	METAL GLAZE METAL GLAZE	10K 47	5% 5%	1/10W 1/10W	
JR1828	1-216-295-91	METAL GLAZE			10W	R454	1-216-017-91	METAL GLAZE	47	5%	1/10W	
JR1829	1-216-295-91	METAL GLAZE			10W	11272	1 110 017 71			3 0	2,2011	
JR1830	1-216-295-91	METAL GLAZE	0 5	% 1/	10W	R455	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
						R456	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
JR1831	1-216-295-91	METAL GLAZE			/10W	R457	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
JR1832 JR1833	1-216-295-91	METAL GLAZE METAL GLAZE			10W 10W	R458 R459	1-216-049-91 1-216-049-91	METAL GLAZE METAL GLAZE	1K 1K	5% 5%	1/10W 1/10W	
JR1834	1-216-295-91	METAL GLAZE			10W	VEDD	1-210-043-31	MEIAL GUAZE	110	J-0	1/1011	
JR1835	1-216-295-91	METAL GLAZE			10W	R463	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
						R465	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
JR1836	1-216-295-91	METAL GLAZE			10W	R466	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
JR1837	1-216-295-91	METAL GLAZE			10W	R467	1-216-041-00	METAL GLAZE	470	5%	1/10W	
JR1838 JR1839	1-216-295-91	METAL GLAZE METAL GLAZE			/10W /10W	R468	1-216-025-91	METAL GLAZE	100	5%	1/10W	
JR1840	1-216-295-91	METAL GLAZE			10W	R469	1-216-025-91	METAL GLAZE	100	5%	1/10W	
0112010	1 210 270 71	111111111111111111111111111111111111111			2011	R470	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
JR1843	1-216-295-91	METAL GLAZE	0 5		10W	R483	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
JR1845	1-216-295-91	METAL GLAZE			10W	R484	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
JR1846	1-216-295-91	METAL GLAZE			10W	R490	1-216-295-91	METAL GLAZE	0	5%	1/10W	
JR1865 JR1866	1-216-295-91				10W	R1801	1-216-051-00	METAL CLASE	1.2K	5%	1/10W	
DKIOOO	1-216-295-91	METAL GLAZE	0 3	170 11	1011	R1802	1-216-049-91		1K	5%	1/10W	
JR1868	1-216-295-91	METAL GLAZE	0 5	% 1/	10W	R1803	1-216-296-91		0	5%	1/8W	
JR1869	1-216-295-91		0 5	% 1/	10W	R1804	1-216-053-00		1.5K	5%	1/10W	
JR1870	1-216-295-91				10W	R1805	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
JR1871 JR1872	1-216-295-91				110W	R1806	1-216-051-00	MEMAT. OT SEE	1.2K	5%	1/10W	
UKTO/Z	1-216-295-91	METAL GLAZE	U 5	% 1/	'10W	R1807	1-216-051-00		1.2K 1K	5%	1/10W 1/10W	
JR1873	1-216-295-91	METAL GLAZE	0 5	% 1/	10W	R1808			100	5%	1/10W	
JR1874	1-216-295-91				10W	R1810	1-216-076-00		13K	5%	1/10W	
JR1875	1-216-295-91	METAL GLAZE	0 5	% 1/	10W	R1811	1-216-025-91		100	5%	1/10W	
JR1876	1-216-295-91				110W	m4040	4 044 444 45		000	F 0	4 /4 0**	
JR1877	1-216-295-91	METAL GLAZE	0 5	% 1/	10W	R1812	1-216-033-00		220	5% 5%	1/10W	
JR1885	1-216-295-91	MEMAT, CLASE	0 5	% 1/	10W	R1813 R1814	1-216-045-00 1-216-031-00		680 180	5% 5%	1/10W 1/10W	
JR1886	1-216-295-91				10W	R1815	1-216-031-00		330	5%	1/10W	
JR1887	1-216-295-91	METAL GLAZE			10W	R1816	1-216-295-91		0	5%	1/10W	
JR1888	1-216-295-91	METAL GLAZE		% 1/	10W							
JR1890	1-216-295-91	METAL GLAZE	0 5	% 1/	10W	R1817	1-216-037-00		330	5%	1/10W	
TD1001	54 A46 AAT TO			0. 4.	14.00	R1818	1-216-037-00		330	5%	1/10W	
JR1891 JR1892	1-216-295-91				10W	R1819 R1820		METAL GLAZE	10K	5% 5%	1/10W 1/10W	
JR1893	1-216-295-91 1-216-295-91		-		10W 10W	R1820 R1821	1-216-029-00 1-216-023-00	METAL GLAZE	150 82	5% 5%	1/10W 1/10W	
JR1894	1-216-295-91				10W	WIGHT	- AIO UAJ-VU	THE GHALL	VL	30	-,,	
JR1896		METAL GLAZE			10W	R1822	1-216-296-91	METAL GLAZE	0	5%	1/8W	
						R1831	1-216-081-00		22K	5%	1/10W	
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REF.NO	PART NO.	DESCRIPTIO	ON		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		REMARK
R1832	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		< CRY	STAL >			
R1833 R1834	1-216-041-00		470 560K	5% 5%	1/10W 1/10W	X401	1_767_2/2_21	VIBRATOR, CR	ναπλτ. / 2 / Ε'	7.6MH ~ \	
R1834	1-216-115-00	METAL GLAZE	AVOC	3%	1/10W	X1801		VIBRATOR, CE	-	-	
R1835	1-216-037-00		330	5%	1/10W	******		**********	*******	*****	*******
R1844 R1845	1-216-081-00 1-216-065-00		22K 4.7K		1/10W 1/10W					,	
R1846	1-216-056-00	METAL GLAZE	2K		1/10W		*A-1632-572-A	A BOARD, COM		9C3A)	
R1847	1-216-115-00	METAL GLAZE	560K	5%	1/10W		*A-1632-570-A			9C3B)	
R1848	1-216-025-91		100	5%	1/10W		+= 1620 400 =	*********		0025)	
R1849 R1850	1-216-001-00 1-216-057-00		10 2.2K	5% 5%	1/10W 1/10W		*A-1632-498-A	*********		9(3D)	
R1851	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		*A-1632-571-A	A BOARD, COM		9C3E)	
R1852	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		*A-1632-574-A			9C3K)	
R1853	1-216-057-00			5%	1/10W			********	****		
R1854 R1855	1-216-057-00 1-216-057-00			5% 5%	1/10W 1/10W		*A-1632-573-A	A BOARD, COM		9C3R)	
R1856	1-216-057-00		2.2K	5%	1/10W						
R1857	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		< CAE	ACITOR >			
R1858	1-216-057-00		2.2K	5%	1/10W	C101		CERAMIC CHIP		10%	25V
R1859 R1861	1-216-017-91 1-216-295-91		47	5% 5%	1/10W 1/10W	C102 C103	1-164-004-11 1-163-251-11	CERAMIC CHIP		10% 5%	25V 50V
R1864	1-216-295-91		0 8.2K	5%	1/10W 1/10W	C103	1-103-231-11	CERAMIC CHIP	IUUFF		(KV-29C3B)
R1865	1-216-295-91	METAL GLAZE	0	5%	1/10W	C105	1-126-965-11		22MF	20% 20%	50V 50V
R1866	1-216-089-91	METAL GLAZE	47K	5%	1/10W	C111	1-124-907-11	ELECT	10MF	20%	300
R1867	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C112	1-164-346-11				16V
R1868 R1869	1-216-089-91 1-216-049-91		47K 1K	5% 5%	1/10W 1/10W	C114 C116	1-164-346-11 1-104-664-11		1MF 47MF	20%	16V 16V
R1871	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	C117	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
R1879	1-216-049-91	METAL GLAZE	1K	5%	1/10W	C118	1-104-664-11	ELECT	47MF	20%	: 16V
R1880	1-216-085-00	METAL GLAZE	33K	5%	1/10W	C119	1-163-017-00	CERAMIC CHIP		10%	50V
R1881 R1882	1-216-065-00 1-216-085-00		4.7K 33K	5% 5%	1/10W 1/10W	C120 C121	1-124-907-11 1-164-299-11		10MF 0 22MF	20% 10%	50V 25V
R1885	1-216-049-91		1K	5%	1/10W	C122	1-164-346-11		1MF		16V
R1886	1_216_205_01	METAL GLAZE	0	5%	1/10W	C126	1-104-664-11	ELECT	47MF	20%	16V
R1888	1-216-295-91 1-216-021-00		68		1/10W	C127	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
R1890	1-216-295-91		0		1/10W 1/10W	C128 C129	1-104-664-11 1-163-017-00	ELECT CERAMIC CHIP	47MF	20% 10%	16V 50V
R1891 R1894	1-216-295-91 1-216-047-91		820	5% 5%	1/10W	C129		CERAMIC CHIP		5%	50V
D100E	1 016 065 00	WEEDLY OF ACE	4.7K	Eo.	1 /100	C131	1-164-346-11	CERAMIC CHIP	1MF		16V
R1895 R1896	1-216-059-00		2.7K		1/10W 1/10W	C132	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
R1897	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C133		CERAMIC CHIP		20%	16V 50V
R1901 R1902	1-216-059-00 1-216-059-00		2.7K 2.7K		1/10W 1/10W	C134 C135	1-124-907-11 1-164-299-11	CERAMIC CHIP	10MF 0.22MF	10%	257
						C136	1-124-907-11		10MF	20%	50V
R1903 R1904	1-216-059-00 1-216-059-00		2.7K 2.7K		1/10W 1/10W	C137	1-164-506-11	CERAMIC CHIP	4.7MF		16V
R1905	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	C138	1-126-964-11	ELECT	10MF	20%	50V
R1906 R1907	1-216-059-00 1-216-059-00		2.7K 2.7K		1/10W 1/10W	C139 C140		CERAMIC CHIP			16V 16V
						C141		CERAMIC CHIP			16V
R1908 R1909	1-216-059-00 1-216-059-00		2.7K 2.7K		1/10W 1/10W	C143	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
R1910	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	C144	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
R1911 R1912	1-216-059-00 1-216-059-00		2.7K 2.7K		1/10W 1/10W	C145	1-163-113-00	CERAMIC CHIP	68PF	5%	50V (KV-29C3B)
	1-210-039-00	MEIND GDWYR	4./A			C146	1-164-346-11	CERAMIC CHIP	1MF		16V
R1920	1-216-295-91		0		1/10W	C150	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
R1921 R1922	1-216-295-91 1-216-025-91		0 100		1/10W 1/10W	C151		CERAMIC CHIP	0.1MF	10%	25V
R1923	1-216-083-00	METAL GLAZE	27K	5%	1/10W	C152	1-124-907-11	ELECT	10MF	20%	50V
R1924	1-216-083-00	METAL GLAZE	27K	5%	1/10W	C153 C154		CERAMIC CHIP		10% 10%	16V 16V
						C155		CERAMIC CHIP		10%	25V

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REF.NO.	PART NO.	DESCRIPTION	1	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C156 C157 C159 C160 C162	1-164-506-11 1-164-505-11 1-163-251-11	CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 2.2MF CERAMIC CHIP 100PF CERAMIC CHIP 1MF	5%	16V 16V 16V 50V 16V	C320 C321 C322 C323 C324	1-164-506-11 1-164-506-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 0.1MF	10%	16V 16V 16V 16V 25V
C163 C164 C165 C166 C167	1-164-232-11 1-164-346-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF CERAMIC CHIP 1MF CERAMIC CHIP 100PF CERAMIC CHIP 0.22MF	10% 10% 5%	50V 50V 16V 50V 25V	C325 C350 C351 C355 C356	1-164-506-11 1-164-506-11 1-163-231-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 15PF CERAMIC CHIP 15PF	10% 5% 5%	25V 16V 16V 50V 50V
C200 C201 C202 C203 C204	1-164-506-11	CERAMIC CHIP 47PF CERAMIC CHIP 4.7MF CERAMIC CHIP 0.1MF	5% 5% 10% 10%	50V 50V 16V 25V 16V	C357 C1001 C1002 C1003 C1004	1-164-506-11	CERAMIC CHIP 39PF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF	5%	50V 16V 16V 16V 16V
C205 C206 C207 C208 C209	1-164-004-11 1-110-501-11 1-110-501-11	CERAMIC CHIP 4.7MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.33MF CERAMIC CHIP 0.33MF CERAMIC CHIP 0.33MF	10% 10% 10% 10%	16V 25V 16V 16V 16V	C1005 C1006 C1007 C1020 C1021	1-165-321-11 1-164-344-11 1-163-251-11	CERAMIC CHIP 4.7MF CERAMIC CHIP 0.68MF CERAMIC CHIP 0.068MF CERAMIC CHIP 100PF CERAMIC CHIP 100PF	10% 10% 5% 5%	16V 16V 25V 50V 50V
C210 C211 C212 C213 C214	1-163-133-00 1-163-133-00	CERAMIC CHIP 0.33MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF CERAMIC CHIP 0.1MF CERAMIC CHIP 4.7MF	10% 5% 5% 10%	16V 50V 50V 25V 16V	C1022 C1035 C1036 C1039 C1040	1-164-004-11	CERAMIC CHIP 100PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5% 5% 10% 10%	50V 50V 25V 25V 25V
C215 C216 C217 C218 C219			10% 20% 20% 5%	16V 25V 50V 50V 50V	C1041 C1042 C1043 C1060 C1301	1-164-222-11 1-163-251-11 1-163-001-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 100PF CERAMIC CHIP 220PF CERAMIC CHIP 0.1MF	5% 10% 10%	25V 25V 50V 50V 25V
C220 C221 C222 C223 C224	1-163-275-11	CERAMIC CHIP 390PF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	C1401 C1402 C1403 C1404 C1405	1-163-231-11 1-163-231-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 15PF CERAMIC CHIP 15PF CERAMIC CHIP 0.0033MF CERAMIC CHIP 0.1MF	10% 5% 5% 10% 10%	25V 50V 50V 50V 25V
C227 C228 C229 C230 C231	1-164-337-11 1-164-004-11 1-164-506-11	CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF CERAMIC CHIP 0.1MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4PF	10% 0.25PF	16V 16V 25V 16V 50V	C1406 C1407 C1408 C1409 C1413	1-164-004-11 1-164-182-11 1-165-320-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0033MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.1MF	10% 10% 10% 10% 10%	25V 25V 50V 16V 25V
C232 C233 C234 C303 C304	1-163-243-11 1-163-243-11 1-164-004-11	CERAMIC CHIP 4PF CERAMIC CHIP 47PF CERAMIC CHIP 47PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	0.25PF 5% 5% 10% 10%	50V 50V 50V 25V 25V	C1414 C1417 C1418 C1420 C1421	1-164-004-11 1-164-004-11 1-164-506-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF	10% 10% 10%	25V 25V 25V 16V 16V
C305 C306 C307 C308 C309	1-164-004-11 1-164-004-11 1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10% 10% 10%	25V 25V 25V 25V 25V	C1430 C1431 C1432 C1433 C1434	1-164-004-11 1-164-004-11 1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10% 10% 10%	25V 25V 25V 25V 25V
C310 C311 C312 C313 C314	1-164-004-11 1-164-004-11 1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10% 10% 10%	25V 25V 25V 25V 25V 25V	C1435 C1437 C1438 C1439 C1441	1-163-235-11 1-163-235-11 1-163-087-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 4PF CERAMIC CHIP 4.7MF	10% 5% 5% 0.25P	25V 50V 50V 50V 16V
C315 C316 C317 C318 C319	1-164-004-11 1-164-004-11 1-164-182-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0033MF CERAMIC CHIP 0.0033MF	10% 10% 10% 10% 10%	25V 25V 25V 50V 50V	C1442 C1443 C1444 C1445 C1446	1-164-506-11 1-164-506-11 1-164-506-11	CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF		16V 16V 16V 16V 16V



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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION REMARK
C1447 C1448 C1450 C1451 C1452	1-165-320-11 1-163-231-11 1-163-231-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF CERAMIC CHIP 15PF CERAMIC CHIP 15PF CERAMIC CHIP 0.01MF	10% 10% 5% 5% 10%	16V 16V 50V 50V 50V	D217 D218 D219 D220	8-719-158-49 8-719-158-49	DIODE RD12SB2 DIODE RD12SB2 DIODE RD12SB2 DIODE RD12SB2
C1460 C1461 C1462 C2001	1-163-263-11 1-163-263-11 1-163-121-00 1-164-506-11	CERAMIC CHIP 330PF CERAMIC CHIP 330PF CERAMIC CHIP 150PF CERAMIC CHIP 4.7MF	5% 5% 5%	50V 50V 50V 16V 16V	D221 D223 D301 D1007 D1008	8-719-158-49 8-719-401-41 8-719-914-44	DIODE RD12SB2 DIODE RD12SB2 DIODE MA3051L-TX DIODE DAP202K DIODE DAN202K
C2002 C2004 C2005 C2007 C2020	1-164-506-11 1-164-506-11 1-163-038-91 1-164-222-11	CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 4.7MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF		16V 16V 25V 25V 25V	D1009 D1010 D1405 D2001	8-719-105-91 8-719-914-42 8-719-036-58	DIODE RD5.6M-B2 DIODE RD5.6M-B2 DIODE DA204K DIODE MA3030-H(TX)
C2021				25V 25V	FB101		INDUCTOR, FERRITE BEAD
C2023 C2024 C2025 C2026	1-163-251-11 1-163-235-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 100PF CERAMIC CHIP 22PF CERAMIC CHIP 22PF	5% 5% 5%	50V 50V 50V	FB102	1-414-235-11	INDUCTOR, FERRITE BEAD CAPSULATED FILTER >
C2028		CERAMIC CHIP 0.01MF		50V	FL102	1-236-071-11	ENCAPSULATED COMPONENT
C2029 C2030 C2031 C2033	1-163-251-11 1-164-222-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 100PF CERAMIC CHIP 0.22MF CERAMIC CHIP 100PF	5% 5%	25V 50V 25V 50V	FL103 FL200 FL201 FL202	1-236-071-11 1-236-071-11 1-233-764-21	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT
	< FII	LTER >			FL203	1-236-071-11	ENCAPSULATED COMPONENT
CD1001	1-527-992-31	OSCILLATOR, CERAMIC			FL302 FL1001	1-236-071-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT
CF200	1-409-327-00	TRAP, CERAMIC (6.5MHZ)			FL1402	1-236-071-11	ENCAPSULATED COMPONENT
						1-236-071-11	ENCAPSULATED COMPONENT
CN101 CN115 CN117 CN201 CN1413	1-695-301-11 *1-564-524-11 *1-564-520-11 1-766-296-11 1-564-523-11	CONNECTOR, BOARD TO BOY PLUG, CONNECTOR 9P PLUG, CONNECTOR 5P CONNECTOR, DUAL SCART PLUG, CONNECTOR 8P	ARD 40P		FL1404 FL1405 FL2001 FL2003	1-236-071-11 1-236-071-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT >
CN2012	*1-564-525-11	PLUG, CONNECTOR 10P			TOTOL		IC CXA1855Q-T6
		ODE >			IC102 IC104 IC201	8-759-514-57	IC MSP3400C-PS-C6-T-ND
D102 D103 D104	8-719-158-49	DIODE RD12SB2 DIODE RD12SB2 DIODE RD12SB2				8-759-437-33	(KV-29C3A/29C3D/29C3K/29C3R) IC MSP3410B-PS-F7-T-ND (KV-29C3B/29C3E)
D105 D199 D200 D201	8-719-158-49 8-719-914-43 8-719-158-49	DIODE RD12SB2 DIODE DAN2O2K DIODE RD12SB2 DIODE RD12SB2 DIODE RD12SB2			IC302 IC303 IC1001 IC1002	8-759-288-85 8-759-351-92 8-759-439-66	IC TDA9143/N2 IC TDA4665T-T IC SDA30C164-GEG IC M27C4001-15C1 SOCKET, PLCC; IC1002
D202 D203 D204	8-719-158-49 8-719-158-49	DIODE RD12SB2 DIODE RD12SB2 DIODE RD12SB2			IC1003 IC1004 IC1401	8-759-259-18	IC ST24C16FB6 IC MB3793-42PNF IC TDA9143/N2
D205 D206 D207	8-719-158-49 8-719-158-49	DIODE RD12SB2 DIODE RD12SB2 DIODE RD12SB2			IC1403 IC2001	8-759-438-61 8-759-438-65	IC SDA9288X-A141 IC SDA5273-C126-GEG
D208 D209		DIODE RD12SB2 DIODE RD12SB2				< COI	
D210 D211 D212 D213	8-719-158-49 8-719-158-49	DIODE RD12SB2 DIODE RD12SB2 DIODE RD12SB2 DIODE RD12SB2			L101 L321 L1401	1-410-428-11	INDUCTOR CHIP 10UH
D214		DIODE RD12SB2			Q102	8-729-920-74	TRANSISTOR 2SC2412K-QR
D215	8-719-158-49	DIODE RD12SB2			Q103		TRANSISTOR BSS83 (KV-29C3B)



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		RE	MARK
Q104 Q106 Q107	8-729-920-74 8-729-216-22 8-729-216-22	TREAMOTORNO 20116)_C /EV_20C3	D)	R114 R115 R116 R117	1-216-311-00 1-216-311-00 1-216-311-00 1-216-022-00	METAL GLAZE METAL GLAZE	6.8 6.8 6.8 75	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
Q108 Q109 Q110 Q112 Q120	8-729-920-74 8-729-216-22 8-729-038-96 8-729-216-22 8-729-027-52	TRANSISTOR 2SA1162 TRANSISTOR IMZ1A-9	2K-QR 2-G 7109 2-G 2KA-T146		R118 R119 R120	1-216-022-00 1-216-022-00 1-216-022-00 1-216-022-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 75 75 75 75	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q200 Q205 Q301 Q302 Q315	8-729-920-74	TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR 2SC2412	RK-QR RK-QR RK-QR RK-QR 1109		R123 R124 R126 R127 R128	1-216-073-00 1-216-113-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 470K 390 390 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
Q316 Q317 Q318 Q1001 Q1301	8-729-920-74	TRANSISTOR IMZ1A-7	P109 P109 RK-QR RK-QR R-G		R129 R130 R131 R132 R133	1-216-113-00 1-208-774-11 1-216-039-00 1-216-039-00 1-216-089-91 1-216-065-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	470 470 390 390 47K 4.7K		1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
Q1305 Q1311 Q1312 Q1401 Q1402	8-729-216-22 8-729-920-74 8-729-920-74 8-729-038-96 8-729-038-96	TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR IMZ1A-7	R-G RK-QR RK-QR P109		R134 R135 R136 R137 R138	1-216-089-91 1-216-065-00 1-216-022-00 1-216-033-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 4.7K 75 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q1403 Q1404 Q1411 Q1412 Q2005	8-729-920-74 8-729-920-74	TRANSISTOR IMZ1A-T TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR 2SC2412 TRANSISTOR 2SC2412	P109 RK-QR RK-QR RK-QR RK-QR		R139 R141 R142 R143 R144	1-216-033-00 1-216-033-00 1-216-033-00 1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q2006 Q2007	8-729-027-59 8-729-027-59	TRANSISTOR DTC144E TRANSISTOR DTC144E		-	R146 R148	1-216-033-00 1-208-774-11	METAL GLAZE	220 470	5% 0.50%	1/10W	
	< RES	ISTOR >			R149	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
JR301 JR302 JR303	1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0	5% 1/10 5% 1/10 5% 1/10	W	R151 R152 R153	1-208-774-11 1-216-067-00 1-216-311-00	METAL CHIP METAL GLAZE	470 5.6K 6.8	0.50% 5% 5%	1/10W 1/10W 1/10W	
JR1001 JR1002 JR1003	1-216-295-91 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0	5% 1/10 5% 1/10	W	R157	1-216-067-00 1-216-051-00 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 1.2K 100	5% 5% 5%	1/10W 1/10W 1/10W	
JR1004 JR1006 JR1008	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0	5% 1/10 5% 1/10 5% 1/10 5% 1/10)W	R159 R160 R162	1-216-304-11 1-216-039-00 1-216-089-91	METAL GLAZE METAL GLAZE	3.3 390 47K	5% 5% 5%	1/10W 1/10W 1/10W	
JR1009 JR1010	1-216-295-91 1-216-295-91	METAL GLAZE 0	5% 1/10 5% 1/10)W	R163 R166 R167	1-216-039-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	390 390 390	5% 5% 5%	1/10W 1/10W 1/10W	
JR1011 JR1301 JR1302 JR1402	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0	5% 1/10 5% 1/10 5% 1/10 5% 1/10)W	R168 R169 R170 R171		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5.6K 68 68	5%	1/10W 1/10W 1/10W 1/10W	
JR1403	1-216-295-91	METAL GLAZE 0	5% 1/10	W	R172		METAL GLAZE	68		1/10W	
R101 R102 R103 R104 R106	1-216-210-00 1-216-025-91 1-216-025-91 1-216-073-00 1-216-033-00	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 10K	5% 1/8W 5% 1/10 5% 1/10 5% 1/10 5% 1/10	IM IM	R173 R174 R175 R176 R177	1-216-089-91	METAL GLAZE	68 1.2K 47K 1K 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R108 R109 R110 R111 R112	1-216-057-00 1-216-085-00 1-216-097-91 1-216-041-00 1-216-041-00	METAL GLAZE 2.2K METAL GLAZE 33K METAL GLAZE 100K METAL GLAZE 470 METAL GLAZE 470	5% 1/10	W W	R178 R179 R180 R181 R182		METAL GLAZE	470K 8.2K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R113	1-216-041-00	METAL GLAZE 470	5% 1/10	W	R183	1-216-033-00	METAL GLAZE	220	5%	1/10W	

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REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTION	N		REMARK
R184 R185 R186 R187	1-216-033-00 1-216-033-00 1-216-057-00 1-216-107-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 2.2K 270K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1038 R1039 R1040 R1041	1-216-049-91 1-216-049-91 1-216-049-91 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R188 R189 R190 R191 R192	1-216-113-00 1-218-755-11 1-216-075-00 1-216-069-00 1-216-041-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	470K 130K 12K 6.8K 470	5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1042 R1044 R1045 R1046 R1047	1-216-025-91 1-216-025-91 1-216-073-00 1-216-025-91 1-216-009-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 10K 100 22	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R193 R194 R195 R196 R197	1-216-041-00 1-216-041-00 1-216-073-00 1-216-113-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 470 10K 470K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1048 R1050 R1051 R1052 R1053	1-216-083-00 1-216-049-91 1-216-057-00 1-216-037-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 1K 2.2K 330 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R198 R199 R200 R201 R202	1-216-113-00 1-216-081-00 1-216-049-91 1-216-049-91 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 22K 1K 1K 6.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1056 R1059 R1060 R1061 R1062	1-216-049-91 1-216-073-00 1-216-049-91 1-216-049-91 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 10K 1K 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R203 R204 R205 R207 R208	1-216-069-00 1-216-049-91 1-216-037-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 1K 330 390 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1063 R1070 R1071 R1075 R1301	1-216-073-00 1-216-025-91 1-216-025-91 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 100 100 2.2K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R213 R214 R215 R272 R311	1-216-025-91 1-216-025-91 1-216-025-91 1-216-295-91 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100 0 82K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1302 R1303 R1304 R1325 R1340	1-216-057-00 1-216-037-00 1-216-037-00 1-216-009-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 330 330 22 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R312 R313 R314 R315 R317	1-216-077-00 1-216-025-91 1-216-033-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 100 220 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1341 R1342 R1344 R1401 R1402	1-216-017-91 1-216-017-91 1-216-037-00 1-216-095-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 47 330 82K 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R330 R331 R332 R333 R334	1-216-041-00 1-216-041-00 1-216-041-00 1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 470 470 470 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1403 R1404 R1406 R1407 R1410	1-216-025-91 1-216-025-91 1-216-037-00 1-216-037-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 330 330 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R335 R336 R337 R338 R340	1-216-041-00 1-216-041-00 1-216-041-00 1-216-041-00 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE	470 470 470 470 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1411 R1412 R1413 R1414 R1415	1-216-041-00 1-216-041-00 1-216-041-00 1-216-041-00 1-216-041-00	METAL GLAZE	470 470 470 470 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R341 R342 R343 R345 R351	1-216-025-91 1-216-025-91 1-216-073-00 1-216-025-91 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 10K 100 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1416 R1417 R1418 R1420 R1421	1-216-041-00 1-216-041-00 1-216-041-00 1-216-049-91 1-216-047-91	METAL GLAZE METAL GLAZE METAL GLAZE	470 470 470 1K 820	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R352 R353 R374 R1001 R1011	1-216-049-91 1-216-041-00 1-216-049-91 1-216-049-91 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	1K 470 1K 1K 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1422 R1423 R1424 R1425 R1426	1-216-051-00 1-216-045-00 1-216-049-91 1-216-047-91 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 680 1K 820 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1012 R1030 R1033 R1034 R1036	1-216-041-00 1-216-073-00 1-216-295-91 1-216-073-00 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	470 10K 0 10K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1427 R1428 R1430 R1431 R1433	1-216-025-91 1-216-025-91 1-216-025-91 1-216-025-91 1-216-043-91	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100 100 560	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1037	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1434	1-216-043-91	METAL GLAZE	560	5%	1/10W



The components identified by shading and marked \hat{x} are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque in sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.

DEENO	DADTNO	DECORPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	ON		REMARK
REF.NO.	PART NO.	DESCRIPTION	NEMANN	NET.NU.	PART NO.	DESCRIPTION	ON		
R1435 R1436 R1440 R1441	1-216-043-91 1-216-069-00 1-216-037-00 1-216-049-91	METAL GLAZE 560 59 METAL GLAZE 6.8K 59 METAL GLAZE 330 59 METAL GLAZE 1K 59	6 1/10W 6 1/10W	C609 C610 C611	1-129-718-00 1-126-953-11 1-126-953-11	ELECT	0.022MF 2200MF 2200MF	5% 20% 20%	630V 35V 35V
R1442 R1450 R1451 R1452 R1461	1-216-049-91 1-216-029-00 1-216-029-00 1-216-029-00 1-216-049-91	METAL GLAZE 1K 59 METAL GLAZE 150 59 METAL GLAZE 150 59 METAL GLAZE 150 59 METAL GLAZE 1K 59	6 1/10W 6 1/10W 6 1/10W	C612 C613 C614 C615 C616	1-124-903-11 1-128-548-11 1-128-548-11 1-110-626-11 1-164-625-11	ELECT ELECT ELECT CERAMIC	1MF 4700MF 4700MF 330MF 680PF	20% 20% 20% 20% 10%	50V 25V 25V 160V 500V
R1462 R1463 R2001 R2002 R2020	1-216-049-91 1-216-041-00 1-216-025-91 1-216-049-91 1-216-041-00	METAL GLAZE 1K 59 METAL GLAZE 470 59 METAL GLAZE 100 59 METAL GLAZE 1K 59 METAL GLAZE 470 59	6 1/10W 6 1/10W 6 1/10W	C622	1-136-559-11 1-104-989-91 1-136-519-12 1-136-518-12 1-113-890-61	FILM FILM FILM CERAMIC	0.0047MF 0.0022MF 0.47MF 0.33MF	10% 5% 20% 20% 20%	400V 200V 300V 300V 250V
R2021 R2022 R2023 R2024 R2025	1-216-073-00 1-216-057-00 1-216-063-91 1-216-049-91 1-216-025-91	METAL GLAZE 1K 59	6 1/10W 6 1/10W 6 1/10W	C627 C628 C629 C630	1-126-940-11 1-126-940-11 1-126-965-11 1-162-599-12 1-162-599-12	ELECT ELECT CERAMIC CERAMIC	330MF 22MF 0.0047MF 0.0047MF	20% 20%	25V 50V 250V 250V
R2026 R2027 R2028 R2031 R2032	1-216-025-91 1-216-057-00 1-216-009-00 1-216-017-91 1-216-017-91	METAL GLAZE 2.2K 59 METAL GLAZE 22 59	6 1/10W 6 1/10W 6 1/10W	C633 C635 C636 C637	1-125-555-11 1-136-165-00 1-136-165-00 1-136-165-00 1-126-964-11	ELECT FILM FILM	330MF 0.1MF 0.1MF 10MF	20% 5% 5% 20%	400V 50V 50V 50V 50V
R2033 R2034 R2035 R2037 R2040	1-216-017-91 1-216-295-91 1-216-017-91 1-216-049-91 1-216-057-00	METAL GLAZE 0 5%	1/10W 6 1/10W 6 1/10W	C648 C650 C651 C662 C663	1-101-001-00 1-126-964-11 1-136-171-00 1-124-563-11 1-126-964-11	FILM	0.001MF 10MF 0.33MF 2200MF 10MF	20% 5% 20% 20%	50V 50V 50V 25V 50V
R2041	1-216-025-91	METAL GLAZE 100 5%	s 1/10W	C664 C665	1-102-129-00 1-126-940-11	CERAMIC ELECT	0.01MF 330MF	10% 20%	50V 25V
	< TUN	IER >			< CON	NECTOR >			
TU101	1-693-338-11 1-693-340-11 1-473-953-11	(KV-29C3A/29C3D/2	9C3E/29C3K/29C3R) 7-29C3B)	CN0709 CN0701 CN0702	1.508-786-00 1.508-765-00 1-573-299-21 1-695-300-11	PIR CONNECT PIN CONNECTOR, B CONNECTOR, B	OR (SMM PIT	CH) 1P RD 10P	
		STAL >			MG-6011291111				11111111
X200		VIBRATOR, CRYSTAL (18.	422Mua)		< DIC	DE >			
X301 X302 X1001 X1401	1-567-505-11 1-567-504-11 1-760-551-21 1-567-505-11	OSCILLATOR, CRYSTAL (3 OSCILLATOR, CRYSTAL (4 VIBRATOR, CERAMIC (20 OSCILLATOR, CRYSTAL (3	3.58MHz) 1.43MHz) 48MHz) 3.58MHz)	D601 D602 D603 D605 D607	8-719-991-33 8-719-109-89 8-719-047-31 8-719-510-12	DIODE D4SB60 DIODE 1SS133 DIODE RD5.6E DIODE RBA-40 DIODE D10SC4	T-77 SB2 2L M) . D60'	7
X1402 X1403		OSCILLATOR, CRYSTAL (4 VIBRATOR, CERAMIC (20.		DC00		SCREW (M3X10		, , , ,	1
******	*******	**************	******	D608	4-382-854-11	DIODE D10SC4 SCREW (M3X10), P, SW (+) ; D608	3
	*A-1636-021-A	G BOARD, COMPLETE		D609 D610 D611	8-719-312-39	DIODE RBA-40 DIODE R2K-V1 DIODE S2LA20			
	*4-203-609-01	HOLDER, G		D614 D615		DIODE 1SS119 DIODE 1SS119			
	< CAF	ACITOR >		D616	8-719-911-19	DIODE 1SS119	-25		
C602 C603 C604 C605 C606	1-165-127-11 1-165-127-11 1-136-171-00 1-137-399-11 1-136-171-00	CERAMIC 470PF FILM 0.33MF FILM 0.1MF	10% 500V 10% 500V 5% 50V 5% 50V 5% 50V	D617 D618 D619 D620 D621	8-719-911-19		-25 -25 -25		
C607 C608	1-137-399-11 1-164-625-11	FILM 0.1MF	5% 50V 5% 50V 10% 500V	D622 D623		DIODE S2LA20	F		

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REF.NO.	PART NO.	DESCRIPTION	I	RE	MARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	
D625 D626 D627 D628 D630	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-991-33	DIODE 1SS119- DIODE 1SS119- DIODE 1SS119- DIODE 1SS119- DIODE 1SS133T	25 25 25			R619 R619		WIREWOUND CARBON METAL	1.8 5% 1.8 5% 1M 5% 8.21 5%		(COM/DIGINALIST COMPANY COMPAN	
D633 D634 D636	8-719-991-33 8-719-991-33 8-719-511-40	DIODE 1SS133T DIODE 1SS133T DIODE S1VB40				R621 R622 R623 R624 R625	1-249-417-11 1-249-430-11 1-249-436-11 1-249-425-11 1-247-815-91	CARBON CARBON CARBON CARBON CARBON	1K 5% 12K 5% 39K 5% 4.7K 5% 220 5%	1/4W 1/4W 1/4W		
	< FER	RITE BEAD >				R626	1-247-863-91	CARBON	22K 5%	1/4W		
FB601 FB602 FB603 FB604	1-410-396-41	FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD	INDUCTOR 0.4 INDUCTOR 0.4	5UH 5UH		R627 R628 R629 R636	1-247-815-91 1-247-807-31 1-249-428-11 1-207-905-00	CARBON CARBON CARBON WIREWOUND	220 5% 100 5% 8.2K 5% 0.27 10	1/4W 1/4W 1/4W		
IC601 IC602	< IC: 1-810-051-11 274 010-64 8-759-510-52	POWER MODULE :	DM-48	を は 2000年 中 でからが かっかん かっかん かっかん かっかん かっかん かっかん かっかん かっか	Minimized to the state of the s	R637 R639 R640 R641 R642	1-249-389-11 1-247-791-91 1-247-791-91 1-247-791-91 1-247-791-91	CARBON CARBON CARBON CARBON CARBON	4.7 5% 22 5% 22 5% 22 5% 22 5% 22 5%	1/4W 1/4W 1/4W		
10003								•				
L605 L606	< COI 1-412-523-21 1-412-523-21	INDUCTOR INDUCTOR	6.8UH 6.8UH			R651 R652 R653 R654 R655	1-215-880-00 1-247-891-00 1-247-891-00 1-247-891-00 1-247-891-00	METAL OXIDE CARBON CARBON CARBON CARBON	10 5% 330K 5% 330K 5% 330K 5% 330K 5%	1/4W 1/4W 1/4W		
	< TRA	NSFORMER >			*	R656	1-249-439-11	CARBON	68K 5%	1/4W		
ined?		fransfornisk, † Link >	eine Pigusk	- 1000	大学 大	R657 R658 R659	1-249-429-11 1-249-421-11 1-249-425-11	CARBON CARBON CARBON	10K 5% 2.2K 5% 4.7K 5%	1/4W 1/4W		
				marters:	232431	R660	1-249-429-11	CARBON	10K 5%	1/4W		
PS602 PS604	1-801-550-21 1-801-550-21	PROTECTOR MOD PROTECTOR MOD PROTECTOR MOD PROTECTOR MOD	ÖLE 2.5A/MP2 ÖLE 2.5A/MP2	50 50	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	R661 R662 R663 R664	1-249-421-11 1-249-421-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON CARBON	2.2K 5% 2.2K 5% 10K 5% 10K 5%	1/4W 1/4W 1/4W		
	< TRA	NSISTOR >				R667	1-249-377-11	CARBON	0.47 5%	1/4W	F	
Q601 Q602 Q603	8-729-032-87 4-382-854-11 8-729-032-87 4-382-854-11 8-729-119-78	TRANSISTOR 2S SCREW (M3X10) TRANSISTOR 2S SCREW (M3X10) TRANSISTOR 2S	, P, SW (+) C4834NP-F09 , P, SW (+)			R670	1-249-417-11 < REL 1-755-157-11 1-755-157-11	AY >	1K 5%	,		
Q604	8-729-200-21	TRANSISTOR 2S	C2500-B			RYGD2	1-755-167-11	RELAY: AC PO			\$\$\$\$\$\$\$\$\$\$\$\$	
Q605	8-729-119-76	TRANSISTOR 2S	C1175-HFE				< TRA	NSFORMER >				
Q608 Q610 Q611	8-729-200-21 8-729-119-76 8-729-119-78	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A933S-RT			7602 A 7602 A	1+429+844+11 1-429+254+11 1-429+952+11	Transformer Transformer Transformer	CONVERTER CONVERTER	(PIT) (PRT)		
Q612 Q615	8-729-119-76 8-729-200-21	TRANSISTOR 2S						RMISTOR >				
Q621		TRANSISTOR 25				PERMIT A	1-809-827-11		nerintral		養養養養調 物。	
	< RES	ISTOR >				inchie AP			A A WALLE	111000000	医蛋蛋酶酸 测度	
R601	1-202-933-61		0.1 10%	1/2W E	P			ISTOR >				
R602 R603 R604	1-247-891-00 1-247-891-00 1-216-369-00	METAL OXIDE	330K 5% 330K 5% 1 5%	1/4W 1/4W 2W F	?	VDR601	1-810-977-21			******	*****	
R605	1-247-891-00	CARBON	330K 5%	1/4W	_		*A-1638-097-A	C BOARD, COMP				
R607 R608 R609	1-216-369-00 1-247-887-00 1-249-429-11	CARBON	1 5% 220K 5% 10K 5%	2W F 1/4W F	F		4-382-854-11		, P, SW (+)		
R610	1-249-419-11	CARBON	1.5K 5%	1/4W F	F		< CAP	ACITOR >				
R611	1-249-377-11	CARBON	0.47 5%	1/4W F	F	C3701	1-162-114-00	CERAMIC	0.0047MF		2KV	



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REF.NO.	PART NO. DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
C3703 C3712 C3713	1-107-662-11 1-102-978-00 1-102-978-00	CERAMIC	22MF 220PF 220PF	20% 5% 5%	250V 50V 50V	Q3717 Q3718	8-729-906-70 8-729-906-70					
C3714	1-102-978-00	CERAMIC	220PF	5%	50V		< RES	SISTOR >				
C3716 C3720	1-128-528-11 1-162-116-00		470MF 680PF	20% 10%	16V 2KV	R3701 R3702 R3703 R3705	1-202-884-11 1-202-884-11 1-202-549-00 1-216-377-00	SOLID SOLID	820K 820K 100	20% 20% 20% 5%	1/2W 1/2W 1/2W 1W	F
						R3706	1-216-377-00		1	5%	1W	F
CN3701 CN3703 CN3704	1-695-915-11 *1-564-512-11 *1-508-767-00	PLUG, CONNE	ECTOR 9P	ITCH) 5P		R3707 R3708 R3709	1-249-416-11 1-249-416-11 1-249-416-11	CARBON CARBON	820 820 820	5% 5% 5%	1/4W 1/4W 1/4W	77
	< D10	ODE >				R3710 R3711	1-215-922-11 1-202-549-00	SOLID	6.8K 100	5% 20%	3W 1/2W	F
D3701 D3702 D3703 D3704 D3705	8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS1 DIODE 1SS1 DIODE 1SS1	33T-77 33T-77 33T-77			R3712 R3713 R3714 R3715 R3716	1-215-922-11 1-202-549-00 1-215-922-11 1-202-549-00 1-249-405-11	SOLID	6.8K 100 6.8K 100 100	5% 20% 5% 20% 5%	3W 1/2W 3W 1/2W 1/4W	F
D3706 D3707 D3708 D3709 D3710	8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-908-03	DIODE 1SS1 DIODE 1SS1 DIODE 1SS1	33T-77 33T-77 33T-77			R3717 R3718 R3721 R3723 R3725	1-249-405-11 1-249-405-11 1-247-885-00	CARBON CARBON CARBON CARBON	100 100 180K 180K 1.5K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F
D3711 D3712 D3713 D3714 D3715	8-719-901-83 8-719-901-83 8-719-901-83 8-719-991-33 8-719-018-82	DIODE 1SS8 DIODE 1SS8 DIODE 1SS1	3 3 33T-77			R3726 R3727 R3728 R3729 R3730	1-249-419-11 1-249-419-11 1-247-815-91 1-247-815-91 1-247-815-91	CARBON CARBON CARBON CARBON	1.5K 1.5K 220 220 220	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
D3716 D3717 D3718 D3719	8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS1	33T-77 33T-77			R3731 R3732 R3733 R3734	1-249-403-11 1-249-403-11 1-249-403-11 1-202-549-00	CARBON CARBON	68 68 68	5% 5% 5% 20%	1/4W 1/4W 1/4W 1/2W	
	< SOC	CKET >				R3735	1-247-885-00	CARBON	180K	5%	1/4W	
03701111	1-525-990-21	Sochet Cr		400	1920	R3738	1-249-401-11	CARBON	47	5%	1/4W	
		** .				R3739 R3740	1-249-401-11 1-249-401-11		47 47	5% 5%	1/4W 1/4W	
L3701	< COI	INDUCTOR	22UH			R3741 R3742	1-249-435-11 1-249-429-11	CARBON	33K 10K	5% 5%	1/4W 1/4W	
L3702 L3703 L3704 L3705	1-408-607-31 1-408-409-00 1-408-607-31 1-408-409-00	INDUCTOR INDUCTOR	22UH 10UH 22UH 10UH			R3743 R3747 R3748 R3749	1-249-430-11 1-216-437-00 1-247-885-00 1-216-437-00	METAL OXIDE CARBON	12K 5.6K 180K 5.6K	5%	1/4W 1W 1/4W 1W	F F
L3706 L3707 L3709	1-408-607-31 1-408-409-00 1-408-409-00	INDUCTOR	22UH 10UH 10UH			R3750	1-249-432-11	CARBON	18K	5% 5%	1/4W 1W	F
25,05		ANSISTOR >	10011			R3752 R3758	1-249-431-11 1-247-807-31	CARBON CARBON	15K 100	5% 5%	1/4W 1/4W	•
Q3701	8-729-906-70	TRANSISTOR	BF871-127			R3759 R3760	1-247-807-31 1-247-807-31		100 100	5% 5%	1/4W 1/4W	
Q3702 Q3703 Q3704 Q3705	8-729-906-70 8-729-906-70 8-729-326-11 8-729-326-11	TRANSISTOR TRANSISTOR TRANSISTOR	BF871-127 BF871-127 2SC2611			R3761 R3762 R3763	1-249-418-11 1-249-418-11 1-249-418-11	CARBON	1.2K 1.2K 1.2K	5%	1/4W 1/4W 1/4W	
Q3706	8-729-326-11	TRANSISTOR	2SC2611			1	< VAR	IABLE RESISTOR	. >			
Q3707 Q3708 Q3709 Q3710	8-729-200-17 TRANSISTOR 25231091-0 8-729-200-17 TRANSISTOR 25A1091-0 8-729-200-17 TRANSISTOR 25A1091-0 8-729-119-78 TRANSISTOR 25C2785-HFE					RV3701 RV3702		RES, ADJ, MET RES, ADJ, MET				
Q3711 Q3712 Q3716	8-729-119-78 8-729-119-78 8-729-906-70	TRANSISTOR	2SC2785-HF									

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REF.NO.	PART NO.	DESCRIPT	ПОМ		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1640-246-A	D BOARD, CO				C814 C816 C817 C819	1-129-702-00 1-109-961-11 1-136-759-11 1-137-104-11	FILM	0.001MF 0.75MF 0.039MF 0.033MF	10% 5% 5% 10%	400V 400V 630V 250V
C101	1-126-965-11	ELECT	22MF	20%	50V	C822	1-126-967-11	ELECT	47MF	20%	50V
C236	1-136-165-00	FILM	0.1MF	5%	50V	C823	1-102-129-00	CERAMIC	0.01MF	10%	50V
C237	1-136-165-00	FILM	0.1MF	5%	50V	C824	1-162-117-00	CERAMIC	100PF	10%	500V
C238	1-126-967-11	ELECT	47MF	20%	16V	C825	1-126-964-11	ELECT	10MF	20%	50V
C241	1-126-967-11	ELECT	47MF	20%	16V	C827	1-102-228-00	CERAMIC	470PF	10%	500V
C242	1-126-953-11	ELECT	2200MF	20%	35V	C835	1-107-655-11	ELECT	47MF	20%	250V
C243	1-136-165-00	FILM	0.1MF	5%	50V	C836	1-102-228-00	CERAMIC	470PF	10%	500V
C244	1-126-953-11	ELECT	2200MF	20%	35V	C837	1-102-228-00	CERAMIC	470PF	10%	500V
C245	1-136-165-00	FILM	0.1MF	5%	50V	C838	1-102-228-00	CERAMIC	470PF	10%	500V
C260	1-126-964-11	ELECT	10MF	20%	50V	C841	1-106-375-12	MYLAR	0.022MF	10%	250V
C261	1-126-964-11	BLECT	10MF	20%	50V	C842	1-106-357-00	MYLAR	0.0039MF	10%	400V
C262	1-104-665-11	ELECT	100MF	20%	25V	C852	1-126-968-11	ELECT	100MF	20%	50V
C263	1-136-165-00	FILM	0.1MF	5%	50V	C854	1-102-129-00	CERAMIC	0.01MF	10%	50V
C264	1-126-933-11	BLECT	100MF	20%	16V	C855	1-126-941-11	ELECT	470MF	20%	25V
C265	1-136-165-00	FILM	0.1MF	5%	50V	C856	1-102-129-00	CERAMIC	0.01MF	10%	50V
C266	1-104-665-11	ELECT	100MF	20%	-25V	C857	1-126-941-11	ELECT	470MF	20%	25V
C269	1-126-967-11	ELECT	47MF	20%	16V	C860	1-106-220-00	MYLAR	0.1MF	10%	100V
C270	1-136-165-00	FILM	0.1MF	5%	50V	C862	1-130-789-00	FILM	1MF	5%	100V
C271	1-126-965-11	ELECT	22MF	20%	50V	C866	1-137-040-11	FILM	0.0022MF	10%	400V
C272	1-136-165-00	FILM	0.1MF	5%	50V	C871	1-136-562-11	MYLAR	0.0082MF	20%	400V
C273	1-136-161-00	FILM	0.047MF	5%	50V	C872	1-106-220-00	MYLAR	0.1MF	10%	100V
C274	1-124-925-11	ELECT	2.2MF	20%	50V	C873	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C275	1-124-925-11	ELECT	2.2MF	20%	50V	C874	1-164-645-11	CERAMIC	1000PF	10%	500V
C276	1-126-967-11	ELECT	47MF	20%	16V	C878	1-106-220-00	MYLAR	0.1MF	10%	100V
C277	1-126-934-11	ELECT	220MF	20%	16V	C900	1-101-810-00	CERAMIC	100PF	5%	500V
C278	1-107-714-11	ELECT	10MF	20%	16V	C901	1-101-810-00	CERAMIC	100PF	5%	500V
C279	1-126-965-11	ELECT	22MF	20%	50V	C902	1-137-372-11	FILM	0.022MF	5%	50V
C280	1-136-169-00	FILM	0.22MF	5%	50V	C903	1-137-372-11	FILM	0.022MF	5%	50V
C281	1-126-967-11	ELECT	47MF	20%	16V	C905	1-126-964-11	ELECT	10MF	20%	50V
C283	1-136-169-00	FILM	0.22MF	5%	50V	C906	1-136-166-00	FILM	0.12MF	5%	50V
C620	1-126-967-11	ELECT	47MF	20%	50V	C907	1-124-903-11	ELECT	1MF	20%	50V
C639	1-126-964-11	ELECT	10MF	20%	50V	C908	1-124-903-11	ELECT	1MF	20%	50V
C652	1-136-171-00	FILM	0.33MF	5%	50V	C909	1-136-153-00	FILM	0.01MF	5%	50V
C653	1-104-661-91	ELECT	330MF	20%	16V	C1619	1-106-220-00	MYLAR	0.1MF	10%	100V
C654	1-104-664-11	ELECT	47MF	20%	25V	C1621	1-106-367-00	MYLAR	0.01MF	10%	400V
C656 C657 C658 C659 C660	1-126-967-11 1-136-165-00 1-136-165-00 1-136-165-00 1-136-164-00	FILM FILM FILM	47MF 0.1MF 0.1MF 0.1MF 0.082MF	20% 5% 5% 5% 5%	16V 50V 50V 50V 50V	C1628 C1629 C1632 C2701 C2702	1-136-244-11 1-130-481-00 1-136-203-11 1-126-964-11 1-104-664-11	FILM FILM ELECT	0.1MF 0.0068MF 0.01MF 10MF 47MF	5% 5% 10% 20% 20%	50V 50V 250V 50V 25V
C666 C667 C668 C669	1-104-661-91 1-136-165-00 1-136-165-00 1-136-165-00	FILM FILM	330MF 0.1MF 0.1MF 0.1MF	20% 5% 5% 5%	16V 50V 50V 50V	C2706	1-102-820-00 < CON	CERAMIC INECTOR >	330PF	5%	50V
C670 C671 C801 C802 C804	1-136-165-00 1-136-165-00 1-123-024-21 1-136-207-11 1-102-110-00	FILM ELECT FILM	0.1MF 0.1MF 33MF 0.047MF 220PF	5% 5% 10% 10%	50V 50V 160V 250V 50V	CN0001 CN0002 CN0004 CN0005 CN0101	*1-564-520-11 *1-568-878-51 1-568-878-51 1-695-915-11 *1-573-296-21	PIN, CONNECT PIN, CONNECT TAB (CONTACT	COR 3P COR 3P	RD 10P	
C805 C808 C809 C810	1-102-117-00 1-162-116-00 1-162-116-00 1-136-558-11	CERAMIC CERAMIC CERAMIC FILM	820PF 680PF 680PF 0.0039MF	10% 10% 10% 10%	50V 2KV 2KV 400V	CN0102 CN0521 CN0722 CN0743 CN0743	1-695-297-11 *1-508-767-00 *1-580 844-11 *1-695-292-11 *1-564-596-11	PIN, CONNECT PIN, CONNECT PIN, CONNECT	OR (5MM PIT OR (POWER) OR (POWER)	CH) 5P	Control of the contro
C811 C812 C813	1-111-229-11 1-136-759-11 1-109-844-11	FILM	0.018MF 0.039MF 0.68MF	3% 5% 5%	2KV 630V 400V	CN0745 CN0746 CN3133	1-695-298-11 *1-568-879-11 1-568-882-51	PIN, CONNECT	OR 4P	RD 40P	



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
TIET WY	< DIO		12000	IC603		IC LM2940T-8.0	
D101		DIODE MTZJ-33C		IC604		SCREW (M3X10), P, SW (+)	; IC603
D236 D237	8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25		IC606	4-202-373-01	SPRING, IC; IC604 IC LM78L12ACZ	
D238 D239	8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25		IC607	8-759-513-71		\odot
D262		DIODE 1SS119-25		IC801	8-759-103-93		
D264 D276	8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25 DIODE 1SS119-25		IC802	8-759-192-71 4-202-373-01	SPRING, IC; IC802	
D278 D279		DIODE 1SS119-25 DIODE 1SS119-25		IC900 IC901	8-742-014-00 8-749-012-12	RECEIVER HIC SBX1981-51	
D280 D281		DIODE 1SS119-25 DIODE 1SS119-25		IC2701	8-759-603-37		
D282 D612	8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25			< JAC	K >	
D613	8-719-911-19	DIODE 1SS119-25		J900 J901	1-764-606-11 1-568-678-11	JACK TERMINAL BLOCK, 5 3P	
D631 D632		DIODE 1SS119-25 DIODE 1SS119-25	!		< COI	L >	
D633	8-719-911-19	DIODE 1SS119-25		L602	1-412-525-31		
D802	4-382-854-11	DIODE ERD08M-15 SCREW (M3X10), P, SW (+);	D802	L603	1-412-525-31	INDUCTOR 10UH	
D803		DIODE ESAD39M-06C		L801 L802	1-459-123-00	COIL, DUST CORE(PAC) COIL, DUST CORE(PAC)	
D804	4-382-854-11 8-719-971-20	SCREW (M3X10), P, SW (+); I DIODE ERC38-06	D803	L803		COIL, DUST CORE(PAC)	
D805 D806	8-719-908-03 8-719-908-03	DIODE GP08D DIODE GP08D		L806 L807	1-412-524-11		
D810	8-719-979-85	DIODE EGP20G		L811 L813	1-459-104-00	COIL, WITH CORE 10MH COIL, WITH CORE 10MH	
D811 D812	8-719-302-43 8-719-510-26	DIODE EL1Z DIODE D1NL20		L814		COIL, AIR CORE	
D813 D814		DIODE D1NL20 DIODE GP08D		L815 L816	1-410-397-21 1-408-947-00	FERRITE BEAD INDUCTOR 1. INDUCTOR 2.2MMH	1UH
D815		DIODE RD9.1ESB2	!	L820 L900		FERRITE BEAD INDUCTOR 1.	1UH
D816 D817	8-719-110-41	DIODE RD15ES-B2 DIODE 1SS119-25	D803	L901	1-408-409-00		
D818 D819	8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25		L902 L903	1-249-417-11 1-249-417-11	CARBON 1K 5% CARBON 1K 5%	1/4W 1/4W
		DIODE 155119-25		L1604 L1605	1-459-104-00	COIL, WITH CORE COIL, DYNAMIC CONVERSION	
D871 D873	8-719-911-19	DIODE 1SS119-25		L1622		COIL, CHOKE 3.3MMH	CHOKH
D874 D901	8-719-030-11	DIODE 1SS119-25 DIODE SLA-570KT3F			< TRA	NSISTOR >	
		HOLDER, LED ; D901		Q276 0277		TRANSISTOR DTC144ESA-TP TRANSISTOR 2SA1175-HFE	
D1609 D1611	8-719-911-19	DIODE EGP20G DIODE 1SS119-25		Q278	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D2701 D2702		DIODE 1SS119-25 DIODE 1SS119-25		Q279 Q280		TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE	
	< CON	INECTOR >		Q281 Q282		TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE	
DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P		Q606 Q607	8-729-119-78 8-729-029-56	TRANSISTOR 2SC2785-HFE TRANSISTOR DTA144ESA	
4.5.444	< FUS			Q613		TRANSISTOR DTC144ESA-TP	
8601 ii.	1-532-505-41 *1-533-725-11	Holden, Ruse 3 1601		Q614 Q616	8-729-030-03	TRANSISTOR DTA144ESA TRANSISTOR DTC144ESA-TP	
	< IC	>		Q617 Q618 Q620	8-729-029-56	TRANSISTOR DTC114ESA-TP TRANSISTOR 2SA933S TRANSISTOR 2SC2785-HFE	
IC236	8-759-190-89 4-202-373-01	IC TDA7265 SPRING, IC ; IC236		Q624		TRANSISTOR 2SC2785-HFE	
IC260		SPACER, INSULATING; IC236		Q801 Q802	8-729-119-80	TRANSISTOR 2SC2688-LK TRANSISTOR 2SC3997CA	
IC261	8-759-502-21			-	4-200-399-01	SPACER, IC ; Q802 SCREW (M3X10), P, SW (+)	; Q802

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REF.NO.	PART NO.	DESCRIPTION		RE	MARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
Q803 Q804	8-729-039-68 4-202-373-01 8-729-039-68	TRANSISTOR IRF SPRING, IC ; Q TRANSISTOR IRF	803 620			R635 R638 R644	1-215-926-00 1-249-425-11 1-249-425-11	METAL OXIDE CARBON CARBON	33K 4.7K 4.7K	5% 5% 5%	3W 1/4W 1/4W	F
Q1610 Q1611	8-729-119-78 8-729-017-06	TRANSISTOR 2SC TRANSISTOR 2SC				R645 R646	1-249-410-11 1-249-403-11	CARBON CARBON	270 68	5% 5%	1/4W 1/4W	
Q2701	8-729-119-78	TRANSISTOR 2SC	2785-HFE			R647 R665 R666	1-249-420-11 1-249-425-11 1-249-413-11	CARBON CARBON CARBON	1.8K 4.7K 470	5% 5% 5%	1/4W 1/4W 1/4W	
	< VPC	SIBION >				1,000	1-247-415-11	CHADON	4,0	2.0	1/211	
R236 R237 R239 R240 R244	1-249-424-11 1-249-417-11 1-249-424-11 1-249-417-11 1-249-413-11	CARBON CARBON CARBON	3.9K 5% 1K 5% 3.9K 5% 1K 5% 470 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R676 R677 R678 R679 R802	1-249-437-11 1-249-437-11 1-249-421-11 1-247-815-91 1-215-916-00	CARBON CARBON CARBON METAL OXIDE	47K 47K 2.2K 220 680	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 3W	F
R245 R246 R247 R248 R249	1-249-430-11 1-249-430-11 1-249-413-11 1-249-425-11 1-216-357-00	CARBON CARBON CARBON	12K 5% 12K 5% 470 5% 4.7K 5% 4.7 5%	1/4W 1/4W 1/4W 1/4W 1W F	?	R803 R804 R805 R806 R807	1-215-916-00 1-215-916-00 1-215-923-00 1-249-411-11 1-247-843-11	METAL OXIDE METAL OXIDE METAL OXIDE CARBON CARBON	680 680 10K 330 3.3K	5% 5% 5% 5%	3W 3W 3W 1/4W 1/4W	F F F
R250 R251 R252 R260 R261	1-216-357-00 1-249-429-11 1-249-429-11 1-247-863-91 1-247-863-91	CARBON CARBON CARBON	4.7 5% 10K 5% 10K 5% 22K 5% 22K 5%	1W F 1/4W 1/4W 1/4W 1/4W		R808 R809 R810 R811 R817	1-216-385-11 1-215-880-00 1-215-914-11 1-216-434-11 1-202-972-61	METAL OXIDE METAL OXIDE METAL OXIDE METAL OXIDE FUSIBLE	0.47 10 330 1.8K	5% 5% 5% 5%	3W 2W 3W 1W 1/4W	F F F F
R262 R263 R264 R265 R266	1-249-421-11 1-249-421-11 1-212-857-00 1-249-389-11 1-249-389-11	CARBON FUSIBLE CARBON	2.2K 5% 2.2K 5% 10 5% 4.7 5% 4.7 5%	1/4W 1/4W 1/4W F 1/4W F 1/4W F	7	R818 R819 R820 R821 R823	1-249-377-11 1-249-377-11 1-214-907-00 1-249-428-11 1-249-420-11	CARBON CARBON METAL CARBON CARBON	0.47 0.47 56K 8.2K 1.8K	5% 5% 1% 5%	1/4W 1/4W 1/2W 1/4W 1/4W	F F
R267 R268 R269 R270 R271	1-247-815-91 1-247-815-91 1-249-415-11 1-249-415-11 1-247-742-11	CARBON CARBON CARBON	220 5% 220 5% 680 5% 680 5% 180 5%	1/4W 1/4W 1/4W 1/4W 1/2W F	•	R834 R835 R837 R842 R843	1-247-887-00 1-249-434-11 1-249-422-11 1-249-399-11 1-202-822-00	CARBON CARBON CARBON CARBON SOLID	220K 27K 2.7K 33 2.2K	5% 5% 5% 5% 20%	1/4W 1/4W 1/4W 1/4W 1/2W	F
R277 R278 R279 R280 R281	1-249-419-11 1-249-441-11 1-249-429-11 1-249-425-11 1-249-437-11	CARBON CARBON CARBON	1.5K 5% 100K 5% 10K 5% 4.7K 5% 47K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R844 R845 R846 R847 R848	1-249-424-11 1-247-881-00 1-249-422-11 1-249-437-11 1-249-425-11	CARBON	3.9K 120K 2.7K 47K 4.7K	5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R282 R283 R284 R285 R286	1-249-430-11 1-249-429-11 1-249-432-11 1-249-425-11 1-249-421-11	CARBON CARBON CARBON	12K 5% 10K 5% 18K 5% 4.7K 5% 2.2K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R849 R850 R851 R854 R855	1-249-429-11 1-249-389-11 1-216-394-00 1-249-436-11 1-249-417-11	CARBON METAL OXIDE CARBON	10K 4.7 2.7 39K 1K	5% 5% 5% 5%	1/4W 1/4W 3W 1/4W 1/4W	F F
R287 R288 R289 R290 R291	1-249-412-11 1-249-421-11 1-249-421-11 1-247-807-31 1-249-421-11	CARBON CARBON CARBON	390 5% 2.2K 5% 2.2K 5% 100 5% 2.2K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R857 R859 R860 R861 R862	1-202-822-00 1-249-432-11 1-247-843-11 1-249-417-11 1-249-383-11	CARBON CARBON CARBON	2.2K 18K 3.3K 1K 1.5	5%	1/2W 1/4W 1/4W 1/4W 1/4W	F
R292 R293 R294 R295 R296	1-249-429-11 1-249-429-11 1-249-429-11 1-247-885-00 1-247-885-00	CARBON CARBON CARBON	10K 5% 10K 5% 10K 5% 180K 5% 180K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R863 R865 R866 R867 R868	1-216-475-11 1-249-436-11 1-249-432-11 1-216-389-11 1-249-418-11	CARBON CARBON METAL OXIDE	120 39K 18K 1	5% 5% 5% 5%	3W 1/4W 1/4W 3W 1/4W	F F
R297 R298 R630 R631 R632	1-247-807-31 1-247-807-31 1-249-429-11 1-215-477-00 1-249-417-11	CARBON CARBON METAL	100 5% 100 5% 10K 5% 220K 1% 1K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R871 R872 R873 R875 R895	1-249-441-11 1-247-895-91 1-247-887-00 1-247-843-11 1-215-866-11	CARBON CARBON CARBON	100K 470K 220K 3.3K 330	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F
R633 R634	1-249-429-11 1-247-895-91		10K 5% 470K 5%	1/4W 1/4W		R900 R901	1-247-815-91 1-249-417-11		220 1K	5% 5%	1/4W 1/4W	



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Ne les remplacer que par une piece portant le numero specifie.

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REF.NO.	PART NO.	DESCRIPTION	ON			REMARK	REF.NO.	PART NO.	DESCRIPTION	ON			REMARK
R902 R908 R909	1-249-417-11 1-249-401-11 1-249-437-11 1-249-437-11	CARBON CARBON	1K 47 47K 47K	5% 5% 5%	1/4W 1/4W 1/4W		C1714 C1715 C1716 C1718 C1719	1-136-203-11 1-163-001-11 1-124-907-11 1-124-120-11 1-124-907-11	CERAMIC CHIP ELECT ELECT	0.01MF 220PF 10MF 220MF 10MF		10% 10% 20% 20% 20%	250V 50V 50V 16V 50V
R911 R912 R913 R914	1-249-425-11 1-249-421-11 1-249-425-11 1-249-421-11	CARBON CARBON		5% 5%	1/4W 1/4W 1/4W 1/4W		C1722 C1723 C1724	1-101-810-00 1-104-396-11 1-101-810-00	ELECT	100PF 10MF 100PF		5% 20% 5%	500V 16V 500V
R916 R917	1-247-807-31 1-259-880-11	CARBON		5% 5%	1/4W 1/4W		av4 5 0 4		NECTOR >	A175 EA	20122	45	
R922 R923 R925	1-249-406-11 1-249-406-11 1-249-429-11	CARBON	120 120 10K	5% 5% 5%	1/4W 1/4W 1/4W		CN1701 CN1830	1-774-418-11 *1-564-510-11	PLUG, CONNEC		BUARD	82	
R926	1-249-429-11	CARBON	10K	5%	1/4W			< DIC	DE >				
R1641 R1645 R1646 R1648	1-247-863-91 1-249-439-11 1-249-421-11 1-215-875-11	CARBON CARBON CARBON METAL OXIDE	22K 68K 2.2K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1W	F	D1701 D1702 D1704 D1705 D1706	8-719-914-42 8-719-982-37	DIODE DAN202 DIODE DA204K DIODE MTZJ-3 DIODE MTZJ-3 DIODE DA204K	9C 9C			
R1649 R1650 R1651 R1652 R2701	1-249-429-11 1-249-429-11 1-249-399-11 1-249-421-11 1-247-863-91	CARBON CARBON CARBON	10K 10K 33 2.2K 22K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F	D1708 D1709		DIODE DA204K				
K2/U1			221	3%	1/4W			< 001	ш >				
R2702 R2703 R2704	1-247-863-91 1-247-863-91 1-247-863-91	CARBON	22K 22K 22K	5% 5% 5%	1/4W 1/4W 1/4W		L1702	1-408-410-00 < TRA	INDUCTOR NSISTOR >	12UH			
R2705	1-249-429-11	CARBON	10K	5%	1/4W								
R2706 R2708	1-249-429-11		10K 10K	5% 5%	1/4W 1/4W		Q1701 Q1702 Q1703	8-729-901-59 8-729-216-22 8-729-017-05	TRANSISTOR 2	SA1162-G			
R2719	1-212-857-00		10	5%	1/4W	F	Q1704	4-382-854-11 8-729-920-74				Q170	3
		TCH >					Q1705	8-729-017-06					
8601	1+571+433+21 1-692-979-11 1-692-979-11 1-692-979-11	SWITCH, TACT SWITCH, TACT	LILE	WER)		The second secon	Q1706 Q1707 Q1708	4-382-854-11 8-729-920-74 8-729-920-74 8-729-901-59	TRANSISTOR 2 TRANSISTOR 2	SC2412K- SC2412K-	QR	: Q170	5
	< TRA	ANSFORMER >					Q1710	8-729-216-22					
T801 T803	1-427-762-11 1-427-776-11	TRANSFORMER,					Q1711 Q1712	8-729-039-27 8-729-039-25	TRANSISTOR B				
T804	1-426-940-11	HLT				2111811		< RES	ISTOR >				
					(NX-4)	103/U2B4)	JR1701 JR1702	1-216-296-91 1-216-296-91		-		1/8W 1/8W	
T806	1-413-059-00	TRANSFORMER,	FERRIT	E (DF	T)		R1701	1-216-025-91	METAL GLAZE	100	5%	1/10W	
******	*********	*******	******	****	*****	******	R1702 R1703	1-249-413-11 1-216-174-00			5% 5%	1/4W 1/8W	
	*A-1644-077-A	VM BOARD, CO					R1704 R1705	1-249-418-11 1-247-736-11	CARBON	1.2K	5%	1/4W 1/2W	F
	< CAP	PACITOR >					R1706	1-249-414-11		560	5%	1/4W	F
C1701	1-104-119-00	₽1.₽ / •Ф	330MF		20%	16V	R1707 R1709	1-249-411-11 1-249-412-11			5% 5%	1/4W 1/4W	
C1704	1-161-830-00		0.0047	MF		500V	R1711	1-249-432-11	CARBON	18K 5	5%	1/4W	
C1706 C1707 C1708	1-107-638-11 1-126-904-11 1-163-075-00	ELECT	33MF 10MF 0.047M	F	20% 20%	160V 50V 50V	R1712 R1713	1-216-085-00 1-216-083-00	METAL GLAZE	27K 5	5%	1/10W 1/10W	
C1709			0.001M		10%	630V	R1714 R1715	1-216-073-00 1-215-866-11				1/10W 1W	F
C1710 C1711	1-129-702-00 1-136-203-11 1-162-318-11	FILM CERAMIC	0.01MF 0.001M		10% 10%	250V 500V	R1715 R1716 R1717	1-249-417-11 1-249-432-11	CARBON	1K 5	5%	1/4W 1/4W	
C1712 C1713	1-107-667-11 1-162-318-11		2.2MF 0.001M	F	20% 10%	160V 500V	R1718	1-249-412-11	CARBON	390 5	5%	1/4W	

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portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
R1719	1-249-416-11	CARBON	820	5%	1/4W			CELLANEOUS	
R1720	1-216-089-91	METAL GLAZE	47K	5%	1/10W	!	***	******	
R1721	1-249-414-11	CARBON	560	5%	1/4W	1			
R1723	1-249-429-11	CARBON	10K	5%	1/4W			COIL, DEGAUSSING	합입되었던데되
							1-452-032-00		
R1724	1-216-689-11	METAL GLAZE	39K	5%	1/10W	47 4 4 5 7 7 3	1-452-094-00		
R1725	1-249-413-11	CARBON	470	5%	1/4W	4	1-453-222-11	TRANSFORMER ASSY, FLYE	ACK
R1726	1-216-035-00	METAL GLAZE	270	5%	1/10W	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			(NX-4003/U2B4)
R1727	1-249-402-11	CARBON	56	5%	1/4W F	1			
R1730	1-216-121-91	METAL GLAZE	1M	5%	1/10W		1-504-146-11		
							1-251-317-31	CAP ASSY, HIGH-VOLTAGE	医复杂克曼氏电影 医电影发展
R1731	1-216-049-91	METAL GLAZE	1K	5%	1/10W		1-571-483-21	CAP ASSY, HIGH-VOLTAGE SWITCH, PUSE (AC POWER	
R1736	1-247-807-31	CARBON	100	5%	1/4W		1-693-338-11	TUNER (TUVIF) (AEP)	. * * * * * * * * * * * * * * * * * * *
R1737	1-216-075-00	METAL GLAZE	12K	5%	1/10W				9C3E/29C3K/29C3R)
R1738	1-216-174-00	METAL GLAZE	100	5%	1/8W		1-693-340-11		
R1739	1-216-222-00	METAL GLAZE	10K	5%	1/8W		1 055 510 11	101111 (10111) (111) (111	23032)
				• •	27 011	11111111111	1.791.690.11	CORD, POWER (WITH NOIS	A STATE OF THE PROPERTY OF THE PARTY OF THE
R1740	1-216-174-00	METAL GLAZE	100	5%	1/8W	A CARDON PORTOR OF THE PARTY OF		2.5A/250V	
R1741	1-216-166-00	METAL GLAZE	47	5%	1/8W		D_050_055_11	DEFLECTION YORK (Y29GX	
R1743	1-216-021-00	METAL GLAZE	68	5%	1/10W		0 353 005 11	Appreciate tore 41230V	440
R1744	1-216-150-91	METAL GLAZE	10	5%	1/8W		8-453-005-21		
R1744 R1745						V901 1	0-133-030-03	PICTURE TUBE (SD-269)	WOOF CLOSY!
KT/45	1-216-150-91	METAL GLAZE	10	5%	1/8W				
*******	******				******	******		* * * * * * * * * * * * * * * * * * * *	****

ACCESSORIES AND PACKING MATERIALS **********

*4-203-485-11	CUSHION (LOWER) (ASSY)
*4-203-486-01	CUSHION (UPPER) (ASSY)
*4-203-487-01	INDIVIDUAL CARTON
4-203-639-41	MANUAL, INSTRUCTION (KV-29C3A) (ITALIAN)
4-203-639-51	MANUAL, INSTRUCTION (KV-29C3B)
	(FRENCH/GERMAN/ITALIAN/DUTCH)
4-203-639-11	MANUAL, INSTRUCTION (KV-29C3D)
	(GERMAN/ENGLISH/DUTCH)
4-203-639-71	MANUAL, INSTRUCTION (KV-29C3E) (SPANISH)
4-203-639-81	MANUAL, INSTRUCTION (KV-29C3E)
	(PORTUGUESE/DANISH/SWEDISH/NORWEGIAN/ FINNISH)
4-203-639-91	MANUAL, INSTRUCTION (KV-29C3K/29C3R)
*4-395-957-01	BAG, PROTECTION

REMOTE COMMANDER

1-473-692-11 COMMANDER, STANDARD TYPE (RM-862)